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ABSTRACT

Based on information derived from research resumes of the Cooperative State Research Service of the U.S. Department of Agriculture (USDA), this revised inventory (current as of January 1977) of rural development research at land grant institutions in the Southern States is part of the Southern Rural Development Center's effort to establish a base of knowledge on rural development and to point to gaps in knowledge where research is needed. Research presented in this inventory is limited to the following major USDA "rural development" classifications: (1) Community Facilities; (2) People Building; (3) Economic Development; and (4) Environmental Improvement. Minor subareas of each major area are identified via a matrix of research areas. This inventory presents over 200 active research projects and 167 terminated projects. Each entry contains the following information: a major and minor area classification; a matrix number; a project title; an abstract; a project number; the researcher's name; the performing organization's name and address; the performance period (dates); and the key words. (JC)

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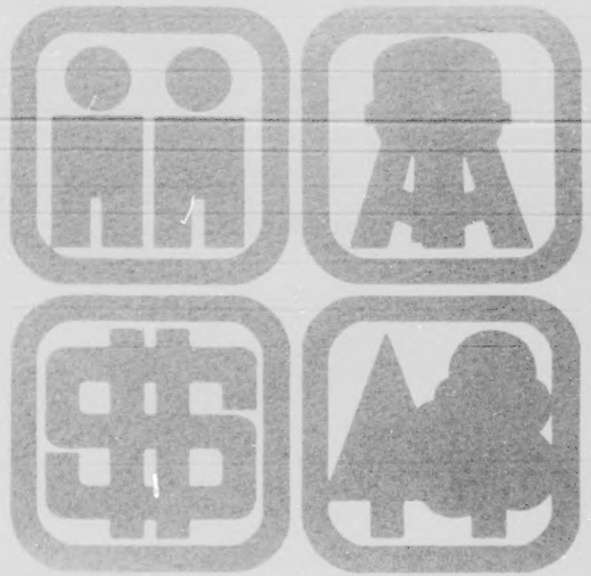

rural development research at land-grant institutions in the south

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FOREWORD

This inventory of rural development research being done at land-grant institutions in the South is based on information from research resumes of the Cooperative State Research Service of the U.S. Department of Agriculture. Projects included are limited to those classifiable as "rural development" according to USDA's four topical areas:

Community Facilities
People Building
Economic Development
Environmental Improvement

The subject subareas of each of these major areas are listed in the matrix on the following pages.

Under the provisions of the Rural Development Act of 1972, rural development research is to be action-oriented. Research in this inventory comes from many disciplines--economics, agriculture, behavioral sciences, for example. The goal of SRDC is to aid in synthesizing this research to establish a base of knowledge for rural development and to point to gaps in knowledge where research is needed.

The research described here is also indexed in the CRIS computerized information system of USDA. Further descriptions of projects can be obtained by writing directly to researchers at their institutions; in some cases, final reports of results may be available. The Center does not have copies of reports for distribution.

Although this information is current as of January 1977, additions, deletions, and changes may be necessary. The Center will revise this publication as changes accumulate and more information becomes available. If you are aware of needed changes or additions, please inform the SRDC, Box 5406, Mississippi State, Mississippi 39762, so that this inventory can be kept current and useful.

William W. Linder

William W. Linder
Director
Southern Rural Development Center

January 1977

RURAL DEVELOPMENT RESEARCH AT LAND-GRANT INSTITUTIONS
IN THE SOUTH

Published by the Southern Rural Development Center Box 5406
Mississippi State, Mississippi 39762

SRDC Series Publication No. 2 (Revised) January 1977

MATRIX OF RESEARCH AREAS

1.00 COMMUNITY SERVICES AND FACILITIES

1.01 Health
1.02 Education and Training
1.03 Water Systems
1.04 Waste Disposal
1.05 Recreation
1.06 Law Enforcement
1.07 Fire Protection
1.08 Transportation and Communication
1.09 General Community Services
1.10 Planning
1.11 Housing, Equipment, and Furnishing
1.12 Legal Institutions and Legal Services
1.13 Financial Services
1.14 Taxation
1.15 Miscellaneous and Unclassified

2.00 PEOPLE BUILDING

2.01 Human Development
2.02 Welfare
2.03 Health and Nutrition
2.04 Demography
2.05 Educational Program Effectiveness
2.06 Household Decisions and Management
2.07 Community Decision Making
2.08 Level of Living and Quality of Life
2.09 Public Policy
2.10 Sociological Aspects of Small Farming
2.11 Miscellaneous and Unclassified

3.00 ECONOMIC DEVELOPMENT

3.01 Holding and Attracting Industry
3.02 Plant Location
3.03 Income and Employment Effects of Rural Industry
3.04 Income and Employment Effects of Natural Resource Development
3.05 Alternative Uses of Natural Resources
3.06 Rural Recreation Enterprises
3.07 Technology for Small Farms
3.08 Enterprises for Small and Part-Time Farms
3.09 Economic Interactions in Rural Areas
3.10 Income and Employment Effects of Taxation and Regulations
3.11 Miscellaneous and Unclassified

4.00 ENVIRONMENTAL IMPROVEMENT

4.01 Conservation
4.02 Recreation
4.03 Forests and Wildlife
4.04 Land Use and Zoning
4.05 Beautification
4.06 Miscellaneous and Unclassified

ACTIVE PROJECTS

RURAL DEVELOPMENT RESEARCH AT LAND-GRANT INSTITUTIONS IN THE SOUTH

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
1.01	Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: Health			
1.01.1	DESIGN AND CRITERIA FOR HEALTH PLANNING SYSTEMS IN RURAL AREAS. (1) Design a systems model for local comprehensive health planning; (2) develop a methodology for evaluating the systems planning model; and (3) evaluate the effectiveness and utilization of alternative medical programs. (OKLA-1494)	Ivan Hanson Department of Agricultural Economics Oklahoma State University Stillwater, OK 74074	1/71-6/76	None reported.
1.01.2	AN ECONOMIC ANALYSIS OF HEALTH STATUS, NEEDS AND FACILITIES IN RURAL COUNTIES OF WEST TENNESSEE. The major purpose of this two-phase study is to contribute to the search for solutions to inadequate medical care in rural areas. The study will determine the health status and health problems of rural people including, frequently, kind and source of care received. The relationship of these factors to race, sex, education, family size and family income will be studied. The study will also assess family participation in medical programs and will determine how differences in the economic and social situations are related to their health needs and health care. (TN-516/1586)	Surendra P. Singh Department of Rural Development Tennessee State University Nashville, TN 37203	--	None reported.
1.01.3	ECONOMIC ANALYSIS FOR PLANNING IN THE OKLAHOMA HEALTH SECTOR. Develop a programming model for comprehensive	R. E. Just Oklahoma State University Stillwater, OK 74074	7/73-6/78	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	health planning, apply the programming model in Oklahoma health planning, develop and estimate a model of health manpower services and facility supply and demand in Oklahoma, and accordingly determine the variation in an efficient allocation of available health resources in Oklahoma from present to projected future time periods and from present to proposed institutional arrangements in the health sector. (OKLA-1552)			
1.01.4	HEALTH STATUS DETERMINANTS IN SELECTED KENTUCKY COUNTIES. Determine the impact of long-term changes in socioeconomic status and health service availability on health status; to delineate policy implications of findings. (KY-00820)	L. M. Busch University of Kentucky Lexington, KY 40506	7/75-6/77	None reported.
1.02	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: EDUCATION AND TRAINING		15
1.02.1	ECONOMIES OF SCALE IN HIGH SCHOOL FACILITIES. Establish the relationship between size and type of school unit and the cost of providing high school instruction. (NC-13423)	R. A. King North Carolina S[illegible] University Raleigh, NC 27607	2/74-2/77	None reported.
1.02.2	FUNDING AND RESOURCE ALLOCATION IN RURAL KENTUCKY SCHOOLS. Estimate the relationship between educational inputs and student performance as measured by	K. R. Anschel D. Holland University of Kentucky Lexington, KY 40506	1/68-6/77	R. F. Bieker and K. R. Anschel. Estimating Educational Production Functions for Rural High Schools

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	standardized tests, in selected schools in rural Kentucky. Determine the monetary costs of attaining alternative levels of educational performance. Determine the sources of variation in school revenues and the impacts of alternative funding levels on the demand for educational inputs. (KY-00077)			American Journal of Agricultural Economics, Nov 1974.
1.02.3	HIGH PLAINS MANPOWER DEVELOPMENT PROJECT. Determine manpower needs, availability, and potential sources. Develop an evaluation manpower recruiting and screening program. Provide liaison and coordination for manpower and personnel management training programs. Provide orientation and counseling for relocated workers and their families. Evaluate the social and economic impact of expanded employment on the community. (TX-06108-RI)	J. I. Mallett R. D. Weddel Texas A & M University College Station, TX 77843	3/74-3/77	None reported.
1.02.4	THE ROLE OF SCHOOLS IN RURAL DEVELOPMENT. Provide a synthesis of information available on all school districts in the state of Louisiana; develop a cooperative structure between educators and sociologists in both academic and nonacademic (e.g., State Department of Education) settings; investigate various methods of disseminating educational information in the state; examine the issue of equity, especially in comparisons of rural and urban school districts; and provide information which is relevant for those involved in rural development programs.	W. W. Falk G. W. Ohlendorf Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803	1/76-12/78	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
1.02.5	RURAL DEVELOPMENT RESEARCH CENTER, PHASE II. Develop and conduct a conference on rural development research in the social and behavioral sciences for the 1890 colleges and for interested representatives of the 1862 colleges. The letter representatives are to be included to avoid unintentional duplication of research efforts on the Southeast Region of the United States. Record, edit, and reproduce the proceedings of the conference for distribution to participants and institutions with related programs. Convene a meeting of the technical advisory committee of the Rural Development Research Center for the evaluation of rural development research efforts under way and the initial development of a five-year plan for the Center. Visit campuses of cooperating institutions to discuss individual needs and interests, and to assist these institutions in research design and evaluation. Provide research models for use by the cooperating institutions. Make available to the cooperating institutions demographic data needed for research purposes. Help cooperating institutions identify support for rural development research projects from sources including but not limited to USDA. (AL-X-PR-0006-BSIJ601)	L. W. Jones R. A. Chung B. Tolbert Department of Behavioral Sciences Tuskegee Institute Tuskegee, AL 36088	3/73-3/78	L. W. Jones. Rural Development in the South--An Overview, paper presented to a joint meeting of Research Coordinators of the 1890 Colleges and Southern Research Directors at the 1973 Session of NASULGC in Denver, Nov 1973. L. W. Jones. Demography of Disadvantaged in Tennessee, in collaboration with Tennessee State University Extension Division.
1.02.6	RURAL DEVELOPMENT CENTER (PHASE III). Conduct such Rural Development Extension Programs as will facilitate the collection,	L. W. Jones Department of Behavioral Sciences	2/74-2/79	None reported.

	interpretation, and dissemination of useful information and knowledge from research and other sources to such individuals, organizations, and agencies as will aid in achieving the purposes of Title V of the Act. Provide technical services and educational activities. Conduct research, investigations, and basic feasibility studies in any field of discipline which may develop principles, facts, scientific and technical knowledge, and new technology. Conduct small farm extension and research and development programs. Develop, sponsor, and/or operate such activities as will strengthen the capability of Tuskegee Institute and other participating institutions and agencies in dealing most effectively with the problems of rural development. (AL-X-PR-0005-BSIJ602)	Tuskegee Institute Tuskegee, AL 36088		
1.02.7	VOCATIONAL AND EDUCATIONAL ASPIRATIONS OF RURAL SCHOOL CHILDREN AND THEIR MOTHERS. Determine changes in vocational and educational aspirations and expectations of children and their mothers and analyze relationships to personal and family factors. Predict which students are more likely to drop out or to remain in school based on personal and family factors. Obtain information about current situational factors and plans related to education and occupation. (TN-00405)	L. Southworth H. Reed University of Tennessee Knoxville, TN 37916	7/74-6/77	None reported.

1.03	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: WATER SYSTEMS		
1.03.1	IDENTIFICATION AND EVALUATION OF POLLUTANTS IN RURAL DRINKING WATER SUPPLIES. Evaluate the quality of drinking water	S. S. Sandhu W. J. Warren South Carolina State	8/72-8/77	R. G. Achari, S. C. Sandhu, and W. J. Warren. Chlorinated Hydrocarbon Residues

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	supply for rural homes and identify the contaminating pollutants. Employ and evaluate the effectiveness of removing pollutants. (SC-X-PR-0003-009)	University Orangeburg, SC 29115		in Ground Water, Environmental Contamination and Toxicology, Bulletin No. 6, Vol 12, 1975. S. C. Sandhu, P. Nelson, and W. J. Warren. Potable Water Quality in Rural Georgetown County, American Chemical Society 169 Meeting, Division of Env Chem, Philadelphia, 1975. R. G. Achari, S. S. Sandhu, and W. J. Warren. A Search for Organochlorine Pesticides in Rural Drinking Water, Abstract, American Chemical Society, XXXV, S.E. Regional Meeting, Charleston, 1973.
1.03.2	IMPROVED DESIGN AND OPERATING CRITERIA FOR RURAL WATER DISTRICTS. Determine design values of peak demand flow rate for different types of rural consumers. Determine patterns of water usage through the day and week in order to determine available pump operating periods. Apply the information obtained in order to develop design criteria and a management model for operation of rural water districts. (OK-01563)	J. E. Garton Department of Agricultural Engineering Oklahoma State University Stillwater, OK 74074	10/73-6/76	None reported.

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1.04	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: WASTE DISPOSAL		
1.04.1	DISPOSAL OF RURAL DOMESTIC WASTES. Investigate methods for improving both the performance and the aesthetics of septic tank disposal systems. (GA-01179)	D. C. Davis Department of Agricultural Engineering Georgia Agricultural Experiment Station Experiment, GA 30212	7/74-6/79	D. C. Davis. Similitude in Distribution Systems for Domestic Waste, University of Georgia Exp Sta, Paper No. 75-2067.
1.04.2	AN ECONOMIC EVALUATION OF SOLID WASTE DISPOSAL SYSTEMS. Identify the advantages and disadvantages of alternative disposal systems and establish general conditions necessary for a comparative advantage of each system. Provide information concerning the net costs of establishing and operating existing solid waste disposal systems. (AR-00812)	R. N. Shulstad Department of Agricultural Economics and Rural Sociology University of Arkansas Fayetteville, AR 72701	10/74-12/76	None reported.
1.04.3	RURAL COMMUNITY IMPROVEMENT THROUGH SELECTION OF SYSTEMS AND SITES FOR SEPTIC WASTE DISPOSAL. Improve the criteria for evaluating and predicting the effectiveness of individual home septic systems under various soil conditions; develop and test design modifications for improving septic system performance in inpermeable soils and soils with high water tables; determine the fate of septic system effluent in different soils. (NC-13417)	S. W. Buol B. L. Carlile D. K. Cassel Department of Soil Science North Carolina State University Raleigh, NC 27607	1/74-6/78	None reported.
1.04.4	SOLID WASTE MANAGEMENT FOR NORTHWEST ALABAMA USING SANITARY LANDFILLS. Determine best locations for specified numbers of sanitary landfills. Determine	W. E. Hardy, Jr. Department of Agricultural Economics and Rural Sociology	4/73-6/76	C. L. Grissom and W. E. Hardy, Jr. Planning for Community Services in Rural Areas - A Regional

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	most efficient routing of pick-up vehicles for each locational pattern. Determine total operating cost for each locational pattern and the minimum cost solid waste collection and disposal system for Northwest Alabama. Present a programmed procedure which can be used by other regions and/or states for solving solid waste location and routing problems. (AL-00363)	Auburn University Auburn, AL 36830		Approach, Alabama Agricultural Exp Sta Bulletin 464. C. L. Grissom. Determination of the Least-Cost Solid Waste Management System for Northwest Alabama: An Approach to Regional Planning, master's thesis, Auburn University. W. E. Hardy. Alternate Approaches to Land Use, Alabama Agribusiness, Vol 13, No. 1.
1.04.5	STUDY REFUSE SEPARATOR AND FLUIDIZED BED INCINERATOR FOR TREATMENT OF RURAL SOLID WASTES. Determine the sources of solid and liquid waste contaminants in the Prairie View and closely related nearby areas. Determine the size of the incinerator needed based on community needs and future expectations. Evaluate and monitor the comparative performance efficiencies of the Multi-Use Incinerator model with special emphasis directed to additional desired modifications. Determine if waste materials from feed lots can be handled effectively by this experimental unit. Determine the possibility of using incinerator residue as a source of plant nutritional supplement. Investigate the utilization of waste heat to supply power more efficiently to rural farm families and/or other small communities and developments. (TX-PR-0001-G-6078)	H. Sheely Prairie View A & M College Prairie View, TX 77445	6/73-6/78	None reported.

1.05	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: RECREATION	
1.05.1	CULTURAL AND RECREATIONAL FACILITIES IN TOWNS OF 10,000-18,000 POPULATION IN OKLAHOMA. Determine existing cultural and recreational facilities in towns with populations of 5,000-9,990 in the state of Oklahoma, and compare. Determine whether there seems to be a relationship between the availability of cultural and recreational facilities and motivation of students to attend college. Determine ways these communities might be helped by colleges, universities, and other agencies to develop more cultural and recreational programs. Determine whether there is a difference in use made of existing facilities by people of different races in the same community. (OK-X-PR-0004-375-E1)	E. R. Davis K. H. Slothower Murray State Agriculture College Tishomingo, OK 73460	8/72-8/77	None reported.
1.05.2	AN ECONOMIC ANALYSIS OF SELECTED OUTDOOR RECREATIONAL RESOURCES IN FLORIDA. Estimate the economic demand and supply of selected outdoor recreational resources in Florida. Determine the economic impacts of changes in environmental quality and public policies on outdoor recreation in Florida. (FL-AS-01623)	K. C. Gibbs Department of Food and Resource Economics University of Florida Gainesville, FL 32601	1/73-12/77	K. C. Gibbs. "Evaluation of outdoor recreation resources: A note," Land Economics, pp 309-312. A. Jennings and K. C. Gibbs. Some Issues Concerning Specification and Interpretation of Outdoor Recreation Demand Models, Southern Journal of Agricultural Economics, July 1974.
1.05.3	METHODS FOR SELECTING, PLANNING, MANAGING AND EVALUATING RECREATIONAL SITES, PHASE 1. Determine roles of plant materials in the selection, development and management of recreational sites, evaluate the adequacy	C. L. Fountain Department of Plant Science North Carolina A & T State University Greensboro, NC 27412	6/73-6/78	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	of design concepts and management practices to meet preferences of selected groups, particularly the elderly, determine the impact of users on vegetative cover of recreational sites and develop reliable and easily applied methodology for post design evaluation of recreational developments. (NC-X-PR-0007-309-12)			
1.06	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: LAW ENFORCEMENT		
	No research resumes available.			
1.07	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: FIRE PROTECTION		
1.07.1	INTENSIVE STUDY OF AN INCENDIARY FIRE PROBLEM: RETALIATORY FIRES. Determine the most crucial causal factors of a group of incendiary forest fires that are, in the opinion of the State Forestry Commission personnel, started in retaliation against the landowners and their policies. Provide research input into development, application and evaluation to the accumulation of knowledge necessary for development of a comprehensive incendiary fire problem analysis and prevention program selection scheme. (MS-0638)	A. W. Baird Department of Rural Sociology Mississippi State University Mississippi State, MS 39762	7/74-6/76	None reported.

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1.07.2	INTENSIVE STUDY OF AN INCENDIARY FIRE PROBLEM IN SOUTHWEST MISSISSIPPI. Produce a comprehensive analytic description of the most frequent casual/motive patterns related to a specific incendiary fire problem; construct casual/explanatory models which will be useful in development of a fire-prevention action program for the problem in area; contribute to the understanding of the nature of man-caused fire risk in general. (LA-BO-1736)	Q. A. L. Jenkins Department of Rural Sociology Louisiana State University Baton Rouge, LA 70803	12/74-12/76	None reported.

1.08	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: TRANSPORTATION AND COMMUNICATION		
1.08.1	EFFECT OF COMMUNICATION AND TRANSPORTATION ON UTILIZATION OF SERVICES BY LOW-INCOME RURAL PEOPLE. Determine effectiveness of programs that are designed to be used by low-income people in upgrading the quality of their life. Determine if techniques and methods used by state and federal agencies attract and reach the rural poor. This work intends to develop effective techniques, which will reach and motivate the rural poor. (SC-X-PR-0003-011)	M. R. Howie K. Hanna South Carolina State College Orangeburg, SC 29115	3/73-3/78	None reported.

1.09	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: GENERAL COMMUNITY SERVICES		
1.09.1	A COMMUNITY SERVICE PROVISION PLAN FOR SOUTHEAST OKLAHOMA. Develop solid waste disposal alternatives for the area; determine mobility patterns of the people in the area; estimate the community	M. S. Salkin Department of Agricultural Economics Oklahoma State University Stillwater, OK 74074	7/74-6/79	M. S. Salkin and O. A. Cleveland. Migration and Migration Predictions: Necessary Ingredients to Regional Planning,

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	service needs over time of the area; determine alternative methods of financing the community service needs. (OK-LO-1580)			Proceedings, Western Agricultural Economics Association, Jan 1974, p 159.
1.09.2	THE ECONOMICS OF INSTITUTIONAL ARRANGEMENTS FOR VIABLE RURAL COMMUNITIES IN THE GREAT PLAINS. Evaluate the effectiveness and costs of providing selected services and facilities in the Great Plains. Determine present availability and adequacy in selected areas. Categorize elements which reflect quality of selected services and facilities. Relate the costs of specified quality of services and facilities and the characteristics of the populations served (size, density, age, distribution, etc.). (TX-03026)	L. L. Jones Department of Agricultural Economics Texas A & M University College Station, TX 77843	7/71-6/76	L. L. Jones and P. H. Gessaman. Public Service Delivery in Rural Areas: Problems and Decisions, TA-11325, paper presented to the American Agricultural Economics Association, Aug 1974. R. B. Brunn and L. L. Jones. Supply and Demand as Applied to Community Services, paper presented to the Workshop on Rural Service Delivery, College Station, TX, Aug 1974.
1.09.3	INSTITUTIONAL STRUCTURES FOR IMPROVING RURAL COMMUNITY SERVICES. Identify configurations of institutional structures which affect provision and delivery of community services. Define indices of adequacy of community services. Determine the existence and adequacy of community services provided in selected rural areas. Determine the relationship between the configuration of institutional structures and the existence and adequacy of community services. Identify policies, alternative patterns of organization and conditions for effective planning and coordination for the delivery of community services. (MS-4304)	H. F. Kaufman S. K. Reddy Department of Rural Sociology Mississippi State University Mississippi State, MS 39762	7/71-6/76	S. K. Reddy and H. F. Kaufman. Recognition of Leadership Continuity in Two Communities, Proceedings, Rural Sociology Section, Association of Southern Agricultural Scientists, Memphis, Feb 1974. S. K. Reddy and H. F. Kaufman. Structural Basis of Community Leadership Continuity: Comparison of Two Small City-Centered Localities, paper presented at Rural Sociological Meeting at Montreal, Aug 23-25, 1974.

1.09.4	PLANNING AND FINANCING PUBLIC SERVICES FOR RURAL COMMUNITIES. Estimate production functions for alternative types of public services and determine the relationship between facility size and output cost, population density, facility locations, transportation costs, and total costs in multicounty areas and relate quality of public services provided in the areas to costs of the system. (FL-AS-01630)	E. T. Loehman M. R. Langham Department of Food and Resource Economics University of Florida Gainesville, FL 32601	10/72-6/77	None reported.
1.09.5	PUBLIC SERVICES AND ECONOMIC DEVELOPMENT IN SELECTED RURAL COMMUNITIES. Measure and explore the impact of community facilities and services, land use, and local tax base on economic development in selected communities in three counties in Alabama's Piedmont area. Determine extent to which public services are necessary for an economically viable community. Identify critical factors necessary for community success in attracting industry and in providing public services. (AL-01-0054)	H. A. Clonts, Jr. Department of Agricultural Economics and Rural Sociology Auburn University Auburn, AL 36830	4/74-6/76	None reported.

1.10	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: PLANNING		
1.10.1	ANALYSIS FOR RURAL DEVELOPMENT PLANNING. Research in state planning includes: (a) projection of state economic variables such as employment, income, investment, and government revenue by year to 1985; (b) formulating alternative state development strategies and projecting levels of economic variables; (c) developing parameters of the state economy	D. F. Schreiner G. A. Doeksen Department of Agricultural Economics Oklahoma State University Stillwater, OK 74074	2/71-6/76	D. Schreiner and K. Knutson. Women in the Labor Force: Place of Residence As It Relates to Labor Force Participation, Work Time Supplied and Income Returns, Journal Article No. 2837 of the Oklahoma Agricultural Exp Sta.

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	such as short- and long-run employment and income multipliers; and (d) establishing sensitivities on the state economic variables. Research in multicounty regional planning includes: (a) projecting regional levels of employment, income, and population to 1985; (b) estimating demand for community services based upon results of (a); (c) estimating costs of selected community services for planning region; (d) estimating net fiscal impact on local governments from alternative strategies of regional development; and (e) developing parameters such as employment, income, water and solid waste multipliers. (OK-01492)			M. Knutson, M. Boehlue, and D. Schreiner. Factors Affecting Work Time Supplied by Women Age 30 to 40 Years, Journal Article No. P153 of the Oklahoma Agricultural Exp Sta. M. Knutson and D. Schreiner. Analysis of Factors Influencing Women's Labor Force Participation Decisions, Agricultural Exp Sta, Oklahoma State University, Research Rpt P-723, Oct 1975. D. Schreiner. Planning for Rural Public Sectors, Agricultural Exp Sta, Oklahoma State University, Research Rpt P-708, Nov 1974.
1.10.2	AN EXPLORATORY STUDY OF SOCIOECONOMIC CONDITIONS IN SOUTH CAROLINA. Determine the kind of data needed by private and public agencies to serve their clients. Obtain the kind of information from families in three-county area that public and private agents need to serve their clients. (SC-X-PR-0003-08)	R. L. Kurst M. E. Akpan South Carolina State College Orangeburg, SC 29115	6/72-6/77	M. E. Akpan, S. Fitzer, and C. Ezeanii. An Exploratory Study of Socio-Economic Conditions in Selected Counties of South Carolina, South Carolina State College, Apr 1975.

1.11	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: HOUSING, EQUIPMENT AND FURNISHINGS		
1.11.1	BASIC HUMAN NEEDS IN RURAL DEVELOPMENT: HOUSING. (1) Determine the fundamental needs in housing among the population of Claiborne County in Southwest Mississippi. (2) Identify the critical factors undergirding the status of needs in housing among the population of Claiborne County in Southwest Mississippi. (3) Develop recommendations based on pilot tests, for meeting the fundamental needs in housing among the population of Claiborne County in Southwest Mississippi. (MS-X-PR-0003-1973-4)	A. Stewart Department of Agriculture Alcorn State University Lorman, MS 39096	5/73-5/78	None reported.
1.11.2	MOBILE HOME SURVEY. To provide basic knowledge within the field of mobile home living. To obtain information about satisfactions concerning mobile home living. To develop material which could be used as a reference guide when selecting a mobile home. Emphasis will be given to: cost, mobility, satisfaction, interiors. (AR-836)	C. McKown Department of Home Economics University of Arkansas Fayetteville, AR 72701	6/73-6/78	None reported.
1.11.3	QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs, and satisfactions of low-income families and examine limitations to the attainment of quality housing. Ascertain goals and housing conditions. Particular attention given to family life-cycle in relation to housing use and need. Emphasis will be	C. McKown Department of Home Economics University of Arkansas Fayetteville, AR 72701	7/73-6/78	C. McKown. Social Factors Related to Housing Selection, Journal of Housing Educators, Jan 1975. C. McKown. Social Acceptance of Manufactured Housing, Arkansas State Curriculum Guide for Teaching Housing, Nov 1975.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	given to: condition satisfaction, longitudinal changes, living space, furniture, furnishings, and the near housing environment. Community provisions and limitations concerning housing considered. (AR-00794)			P. Flanigan and C. McKown. Life in the Lewis Street Project, Arkansas Advocate, Nov 1973.
1.11.4	QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs, and satisfactions of low-income families and examine limitations to the attainment of quality housing. Formulate and evaluate innovative delivery systems in production, marketing, and financing in order to improve housing conditions. Formulate and evaluate innovative techniques and delivery systems for the transferral of housing information. Develop and determine acceptability and economic feasibility of innovative designs, materials and building techniques. (GA-00468)	B. J. Campbell T. M. Durrani Department of Home Economics University of Georgia Athens, GA 30601	7/73-6/78	None reported.
1.11.5	QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs and satisfaction of low-income families and examine limitations to the attainment of quality housing. Formulate and evaluate innovative delivery systems in production, marketing, and financing in order to improve housing conditions. Formulate and evaluate innovative techniques and delivery systems for the transferral of housing information. (NC-11095)	N. H. Holmes R. A. King Department of Home Economics University of North Carolina Greensboro, NC 27412	7/73-6/78	None reported.

1.11.6	QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs and satisfactions of low-income families. Examine limitations to the attainment of quality housing. (OK-01570)	K. K. Stewart Department of Home Economics Oklahoma State University Stillwater, OK 74074	4/74-6/76	None reported.
1.11.7	QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs and satisfactions of low-income families and examine limitations to the attainment of quality housing; formulate and evaluate innovative techniques and delivery systems for the transferral of housing information; develop and determine the acceptability and economic feasibility of innovative designs including housing components, new combinations of materials, and building techniques, such as peripheral heating systems and modular panels. (TX-02951)	A. Stubbs Consumer Research Center Texas A & M University College Station, TX 77843	7/73-6/78	None reported.
1.11.8	QUALITY HOUSING ENVIRONMENT FOR LOW-INCOME FAMILIES. Identify housing related aspirations, expectations, needs and satisfactions of low-income families and examine limitations to the attainment of quality housing. Formulate and evaluate innovative delivery systems in production, marketing, and financing in order to improve housing conditions. Develop and determine the acceptability and economic feasibility of innovative designs including housing components, new combinations of materials, and building techniques, such as peripheral heating systems and modular panels. (VA-0626215)	J. E. Hackett H. T. Hurst J. E. Montgomery Environmental & Urban Systems VPI & State University Blacksburg, VA 24061	7/73-6/78	W. G. Wagner and H. T. Hurst. An Alternative Heat Distribution System for New and Old Homes, Proceedings of the Third International Symposium on Lower-Cost Housing Problems, Montreal, Vol 1, May 1974, pp 226-241. H. T. Hurst and D. H. Pletta. Correction Factors for Deflection of Wood Flooring Systems, Proceedings of the Third International Symposium on Lower-Cost Housing Problems, Montreal, Vol 2, May 1974, pp 993-1008.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				J. E. Montgomery. Commentary on Misconceptions About Man-Made Space, Family Coordinator, Vol 23, No. 1, June 1974.
1.11.9	A STUDY OF THE RELEVANCE OF MANUFACTURED HOUSING TO THE NEEDS OF LOW INCOME NORTH CAROLINA FAMILIES. To determine social, economic, and psychological characteristics and level of satisfaction of manufactured home dwellers. Compare manufactured with conventional home with regard to patterns of ownership, quality, and the impact of public policy. (NC-000-307-069)	G. E. Gray Institute for Research in Human Resources North Carolina A & T State University Greensboro, NC 27411	--	None reported.
1.12	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: LEGAL INSTITUTIONS AND LEGAL SERVICES		
	No research resumes available.			
1.13	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: FINANCIAL SERVICES		
	No research resumes available.			
1.14	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: TAXATION		
	No research resumes available.			

1.15 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: MISCELLANEOUS AND UNCLASSIFIED

No research resumes available.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.01	Major Area: PEOPLE BUILDING	Minor Area: HUMAN DEVELOPMENT		
2.01.1	DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN THE SOUTH AND THEIR PATTERNS OF MOBILITY. Follow the life adjustments of a sample of young people from the rural South who were studied earlier in regional project S-61. Determine patterns of development, adjustment and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. Determine factors influencing differentials in these patterns of development, adjustment, and mobility of rural youth. Ascertain the rates and direction of historical change in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education, job, and family. (LA-BO-1231)	G. W. Ohlendorf Department of Rural Sociology Louisiana State University Baton Rouge, LA 70803	2/65-6/76	A. O. Haller, L. B. Otto, R. F. Meier, and G. W. Ohlendorf. Level of Occupational Aspiration: An Empirical Analysis, American Sociological Rev 39, Feb 1974, pp 113-121. G. W. Ohlendorf. Educational Projections of Rural Louisiana Youth: A Historical Comparison, Proceedings of the Rural Sociological Section, Southern Association of Agricultural Scientists, Memphis, 1974. L. B. Otto, A. O. Haller, R. F. Meier, and G. W. Ohlendorf. An Empirical Evaluation of a Scale to Measure Occupational Aspiration Level, Journal of Vocational Behavior No. 5, Aug 1974, pp 1-11. J. S. Picou, A. G. Cosby, J. W. Lemke, and H. T. Azuma. Occupational Choice and Preception of Attainment Blockage: A Study of Lower-Class Delinquent and Non-delinquent Black Males, Adolescence 9, Summer 1974, pp 289-298.

				J. S. Picou and E. W. Curry. Interscholastic Athletic Participation and the Formation of Educational Goals: A Rural-Urban Comparison, Proceedings of the Rural Sociological Section, Southern Association of Agricultural Scientist, Memphis, 1974.
2.01.2	DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN MISSISSIPPI AND THEIR PATTERNS OF MOBILITY. Determine patterns of development, adjustment and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. Determine factors influencing differentials in these patterns of development, adjustment and mobility among rural youth. Ascertain the rates and direction of historical change in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education, job, and family. (MS-4006)	C. R. Sollie Department of Rural Sociology Mississippi State University Mississippi State, MS 39762	8/72-6/76	None reported.
2.01.3	DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN THE SOUTH AND THEIR PATTERNS OF MOBILITY. To follow the life adjustments of a sample of young people from the rural South who were studied earlier in regional project S-61. To determine patterns of development, adjustment, and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. To	W. Falk A. G. Cosby W. P. Kuvlesky Department of Rural Sociology Texas A & M University College Station, TX 77843	7/71-6/76	W. W. Falk and A. G. Cosby. School Desegregation and Educational Attitudes: A Quasi-Experiment in Rural Schools, Rural Sociology, Spring 1974, pp 28-41. A. G. Cosby. Occupational Expectations and the Hypothesis of Increasing Realism of Choice, Journal of Vocational Behavior, 1974, pp 53-65.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	determine factors influencing differentials in these patterns of development, adjustment and mobility of rural youth. To ascertain the rates and direction of historical change in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education, job, and family. (TX-02811)			M. F. Lever. Place of Residence Projections of East Texas Rural Youth, Texas A & M University, Dept of Rural Sociology, DIR 74-1. A. G. Cosby et al. Youth Status Projections in the South: Structured Annotations of Research Literature from Regional Research Project S-81, Texas A & M University, Dept of Rural Sociology, DIR 74-8.
2.01.4	ECONOMIC DEVELOPMENT OF GEORGIA COUNTIES LEVEL OF RURALNESS. Develop a satisfactory definition and quantitative measure of rurality which conforms to commonly held qualitative notions of what differentiates rural from urban areas. Evaluate probable measures of economic well-being and search for casual variables, ascertain the extent to which level of ruralness is related to economic well-being and determine whether the casual variables or their effects differ between rural and urban areas. (GA-01178)	B. J. Smith Department of Agricultural Economics Georgia Agricultural Experiment Station Experiment, GA 30212	7/73-6/76	D. W. Parvin, Jr., and B. J. Smith. An Estimate of the Relative Rurality of Mississippi Counties, Mississippi State University Staff Series Paper No. 11, June 1974. B. J. Smith and D. W. Parvin, Jr. Employment and Income Characteristics of Georgia Counties, 1940-1970, Georgia Agricultural Exp Sta Research Rpt 178, Dec 1973.
2.01.5	ECONOMIC IMPLICATIONS OF MIGRATION FOR EASTERN KENTUCKY. Examine migration process for selectivity of out-migration	K. Anschel E. Bordeaux E. Smith	7/72-6/77	B. J. Deaton and K. R. Anschel. Migration and Return Migration: A New

	and return migration with respect to age, education, sex, occupational skills, and incomes in eastern Kentucky. Measure private costs and returns to individual groups of migrants and return migrants, respectively, of migration and return migration and analyze these returns with respect to age, education, training, and socioeconomic background of the migrant. Measure costs and returns to public account attributable to out-migration and return migration. Estimate probable effect of changes in population composition resulting from migration on aggregate and per capita community income. (KY-00093)	Department of Agricultural Economics University of Kentucky Lexington, KY 40506		Look at the Eastern Kentucky Migration Stream, Southern Journal of Agricultural Economics, Vol 6, No. 1, July 1974, pp 185-191. K. R. Anschel and A. F. Bordeaux, Jr. The Realities of Migration: A Micro-Economic Viewpoint in the Labor Force: Migration, Earnings, and Growth, Tennessee Valley Authority, Bulletin Y-63, Aug 1973, pp 95-100.
2.01.6	EFFECTS OF FAMILY ORIENTATION UPON PERSONAL CHARACTERISTICS OF COLLEGE FRESHMEN. Determine if there are common personal characteristics among children of a single pattern of family orientation which evolve as a result of the various patterns of orientation. (AR-X-45-2060)	J. W. McCray P. Greenhouse Department of Home Economics University of Arkansas Pine Bluff, AR 71601	4/72-4/77	None reported.
2.01.7	AN EXPERIMENT IN EARLY CHILDHOOD EDUCATION IN A RURAL SETTING. Determine effectiveness of a broader environment and special educational devices upon learning activity. Determine effectiveness of a curriculum which is specifically designed for rural areas. Analyze formal characteristics of language, reading, and arithmetic that are relevant to young children in rural areas. (OK-X-PR-0004-274-S-2)	A. C. Mack A. West Langston University Langston, OK 73050	4/72-4/77	None reported.
2.01.8	FACTORS OF DISADVANTAGEMENT AS RELATED TO SCHOOL PERFORMANCE. Determine if economic disadvantagement affects school	J. T. King Department of Home Economics	8/72-8/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	performance. Determine if the educational level of parents has any effect on the school performance of disadvantaged children. Determine if family structure is a factor in the school performance of disadvantaged children. Determine if there are common personal traits among disadvantaged children. (AR-X-45-2110)	University of Arkansas Pine Bluff, AR 71601		
2.01.9	FOUNDATIONS FOR SELF-DETERMINATION. The primary goal of this research is to set up an experimental study in which powerlessness/alienation among rural people can be measured. A measurement instrument will be designed. An experimental and a control group situation will be set up wherein the powerlessness/alienation dynamic and communication strategies can be systematically tested and explored in terms of the growth of rural poor people toward identifying and seeking out solutions to their problems: (1) to assume responsibility for their own welfare, and (2) to give direction to agencies designated to provide assistance to them once they have defined their own goals and attendant problems.	M. R. Howie K. Hanna South Carolina State College Orangeburg, SC 29117	8/75-2/80	None reported.
2.01.10	SYNTHESIS OF RESEARCH FINDINGS RELEVANT TO RURAL DEVELOPMENT. Develop synthesis of research findings relevant to rural development in selected areas for the purpose of: extracting principles or common findings for use in furthering	W. W. Linder Agricultural Experiment Station Mississippi State University Mississippi State, MS 39762	6/74-6/76	None reported.

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	rural development efforts; identifying additional research needs; utilizing available knowledge through effective dissemination. Support the research mission of the Southern Rural Development Center by providing support for Center Associates and Functional Networks. (MS-4012)			
2.01.11	WORK MOTIVATION OF CULTURALLY-DISADVANTAGED URBAN AND RURAL WORKERS IN TENNESSEE. Comparison of work motivation of culturally-disadvantaged urban and rural workers in west, middle, and east Tennessee by age, sex, ethnicity, formal education, income level, length of residence, occupational field and skill level, within selected dimensions of values, interests, perceptual abilities, intellectual functioning, adjustment, aspirations, risk-taking attitudes, personal history and physique somatotype. Comparison of the work motivation of the culturally-disadvantaged with industrial norms. Development of recommendations for the rehabilitation and fuller use of the human resources of the culturally-disadvantaged urban and rural workers in the three geographical regions of Tennessee. (TN-X-PR-0001-34566)	E. W. Bragg Department of Home Economics Tennessee A & I State University Nashville, TN 37203	3/72-3/77	Twenty-Eight Women Apparel Workers: A Case Study of Work Motivation in Southwest Rural Tennessee, Tennessee State University School of Agriculture and Home Economics, Bulletin No. 3, Aug 1974.
2.02	Major Area: PEOPLE BUILDING	Minor Area: WELFARE		
2.02.1	COMPARATIVE ANALYSIS OF AGING POOR AND ECONOMICALLY SECURE IN JEFFERSON COUNTY. Determine what special problems of the aged are in Jefferson County in order to	P. Greenhouse J. W. McCray Department of Home Economics	3/72-3/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	determine their social and economic needs. Gain information which will help provide a basis for appropriation of financial resources for the aged at the local, state and federal level. Determine if there are differences in the problems of the poor and the economically secure. (AR-X-45-2070)	University of Arkansas Pine Bluff, AR 71601		
2.02.2	INCIDENCE AND CAUSES OF RURAL POVERTY AND ECONOMIC BENEFITS OF POVERTY PROGRAMS. Determine the incidence, characteristics, geographical distribution and major causes of poverty and low income among rural people. Determine types of assistance desired by rural people in poverty situations and evaluate public policies for poverty alleviation with regard to recipients' and desires and distribution of benefits among recipient groups. (FL-AS-01629)	C. G. Davis Department of Food and Resource Economics University of Florida Gainesville, FL 32601	9/72-6/77	C. G. Davis. Rural Development Research Programs of Southern 1862 and 1890 Land Grant Institutions: Characteristics, Needs, and Priorities for the 1970's, Southern Journal of Agricultural Economics, Vol 6, No. 1, July 1974, pp 79-89; Florida Exp Sta Journal Series No. 5400. C. G. Davis. Traditional Graduate Admission Standards and the Supply of Black Professionals in Agriculture: The University of Florida Experience, Food and Resource Economics Report, June 1973. C. G. Davis. Traditional Graduate Admission Standards as Constraints to Increasing the Supply of Black Professionals in Agriculture: The Florida

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Experience, American Journal of Agricultural Economics, Vol 55, No. 5, Dec 1973, pp 952-966.
R. O. Coppedge and C. G. Davis. Rural Housing in North-Central Florida: Shortage or Surplus?, Food and Resource Economics Department Rpt 68, May 1975.
C. G. Davis. Rural Housing Quality and Income Poverty in North-Central Florida, Florida Agricultural Exp Sta Bulletin No. 776, Aug 1975.
M. J. Gorham. An Analysis of the Determinants of Nutrient Intake for Selected Families in Florida's Expanded Nutrition Program, unpublished thesis, University of Florida, Dec 1973.
C. G. Davis. The Poor Identified: Progress to Date, Food and Resource Economics Department, Staff Paper No. 1, Feb 1975.
R. O. Coppedge and C. G. Davis (co-editors). The Poverty Dimension of Rural Underdevelopment in America: New Perspectives, Proceedings of Poverty Symposium, Food and Resource Economics Department, University of Florida, July 1975.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.03	Major Area: PEOPLE BUILDING	Minor Area: HEALTH AND NUTRITION		
2.03.1	BASIC HUMAN NEEDS IN RURAL DEVELOPMENT: FOOD AND NUTRITION. Determine the fundamental needs in food among the population of Claiborne County in Southwest Mississippi. Identify the critical factors undergirding the status of needs in food among the population of Claiborne County. Develop recommendations based on pilot tests, for meeting the fundamental needs in food among the population of Claiborne County in Southwest Mississippi. (MS-X-PR-0003-1973-2)	E. Koh Department of Home Economics Alcorn State University Lorman, MS 39096	5/73-5/78	None reported.
2.03.2	DEVELOP A SET OF CORRELATED INDICES WHICH CAN BE USED IN THE STUDY OF SUBCLINICAL MALNUTRITION. Identify the educational achievement level of elementary school students through the use of standardized achievement and intelligence tests for purposes of correlating this data with nutritional data regarding these students. Establish a set of indices applicable for monitoring subclinincal nutrition. (KY-X-PR-0001-15A)	L. Scott M. M. Smith Department of Education Kentucky State University Frankfort, KY 40601	3/73-3/78	None reported.
2.03.3	DIET RELATED TOXEMIA IN PREGNANCY. Investigate relationships of specific nutrients and nutrient combinations to etiology of toxemia of pregnancy in the rural low-income population of Alabama.	J. Y. Lu R. A. Chung C. Williams D. Woullard K. Wilson	6/72-6/77	None reported.

	Determine correlative factors between dietary components and the incidence of toxemia of pregnancy. Analyze placentas for activities of enzymes related to carbohydrate metabolism and for nucleic acid composition. From results obtained in the above investigations, formulate and test diets that might reduce the incidence of toxemia of pregnancy and develop new food products and recipes. (AL-X-PR-0005-FSRC00)	Department of Home Economics Tuskegee Institute Tuskegee, AL 36088		
2.03.4	DIET RELATED TOXEMIA IN PREGNANCY. PHASE II. Determine correlative factors between dietary components and toxemia incidence during pregnancy. (AL-X-PR-0005-FSRC00L)	B. Tolbert T. A. Chung Department of Home Economics Tuskegee Institute Tuskegee, AL 36088	3/73-3/78	None reported.
2.03.5	EATING HABITS AND NUTRITIONAL STATUS OF THE TEENS IN KENTUCKY. Identify food habits, the kind and extent of malnutrition among one of the vulnerable groups - teenagers. Compare the nutritional intake and food behavior of married teenagers to single teens of corresponding age group. Relate biochemical findings and sociodemographic factors to food intake, anthropometric and clinical observation. (KY-X-PR-0001-19A)	O. M. Cheaney C. J. Lee Department of Home Economics Kentucky State University Frankfort, KY 40601	3/73-3/78	None reported.
2.03.6	EFFECTS OF SUBCLINICAL MALNUTRITION ON ADOLESCENT LIFE STYLES IN A RURAL POPULATION. Carry out a large pretest or pilot study to identify a representative random sample of the adolescent life styles and cross effects upon subclinical malnutrition in a rural population of the Commonwealth of Kentucky within the counties of Anderson, Franklin, Henry, Owen, Scott,	A. W. Wright A. M. Seals R. L. Uhl Department of Sociology Kentucky State University Frankfort, KY 40601	3/73-3/78	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	and Shelby. Code the data bank for interdisciplinary cross discoveries by projects in biology, chemistry, economics, education, and home economics. (KY-X-PR-0001-24A(1))			
2.03.7	FACTORS AFFECTING PATTERNS OF LIVING OF DISADVANTAGED FAMILIES. Utilize both Texas data already collected from non-metropolitan and metropolitan black families to investigate how subpopulations experiencing particular family stress as a result of containing individual members who are either mentally, emotionally, of physically handicapped in reference to two areas of concern: determining nature of differential interrelationships (variable interaction) among internal patterns of family life; and isolating external factors, i.e., community structures and institutions influencing these configurations. (TX-X-PR-0004-G-1969)	F. M. Byrd W. P. Kuvlesky Cooperative Research Center Prairie View A & M College Prairie View, TX 77445	4/72-4/77	Black Familes Under Stress: A Metropolitan-Nonmetropolitan Comparison of Relationships Between Family Disability and Internal Family Interaction, Departmental Report No. 73-1. The Impact of Physical Disability of Children upon the Social and Emotional Well-Being of Metropolitan and Nonmetropolitan Black Families, graduate research report. Comprehensive Annotated Bibliography on Disability, an annotated bibliography.
2.03.8	FACTORS INFLUENCING THE UTILIZATION OF FEDERAL FOOD-AID PROGRAMS. During Phase I (July 72-June 74) of the project, it will be attempted to assess the total size of North Carolina households that were eligible for participation in either of the federal family food-aid programs that were in effect on the day the 1970 Census was taken, and to assess the extent to which those eligible households actually participated in these programs on a county-by-county basis. (NC-X-PR-0004-307-035)	G. N. Ganapathy K. Hafner Department of Home Economics North Carolina A & T State University Greensboro, NC 27412	6/72-6/77	K. Hafner and S. Ganapathy. The Nutritional Sciences: A Proposal for Classification, Federation Proceedings 33(3), Part I, 1974, p 658.

2.03.9	FOOD CHOICES AND NUTRITIONAL HEALTH OF THE OLDER AGE GROUP. Identify potential for modification of food choices and food programs to improve nutritional health. Contribute to refined methods of measuring nutritional status in relation to variations among individuals. Correlate food choices with nutritional status of individuals in selected population groups with emphases on age 60 or over. (TX-X-PR-0002-G-1967)	F. M. Byrd Cooperative Research Center Prairie View A & M College Prairie View, TX 77445	4/72-4/77	None reported.
2.03.10	HEALTH-CARE DELIVERY SERVICES IN RURAL TEXAS. Evaluate current health facilities: doctor, nurse, and hospital services, nursing homes, and health services equipments in rural areas. Determine the health problems existing in rural areas, including age composition and past health care received. Determine the cost of medical services to the rural population. Assess family participation in medical programs: public, Medicaid, private health insurance, and other health insurance programs. Determine the factors that influence the attraction of medical personnel to rural areas. (TX-X-PR-0002-G-6076)	M. Soliman Prairie View A & M College Prairie View, TX 77445	3/73-3/78	Attitudes and Problems of Food Stamp Participants, master's thesis, May 1974.
2.03.11	HIGHLY STRUCTURAL COMPLEXES IN FOODS AND BODY TISSUES AND THEIR ROLES IN CARDIOVASCULAR PROBLEMS. To extend the base of information to assess improved biochemical parameters in the understanding of glucogenic and lipogenic effects of various dietary carbohydrates in cardiovascular problems as associated with subclinical malnutrition. (KY-X-PR-0001-14C)	I. Ahmad J. C. Letton University of Kentucky Lexington, KY 40506	6/75-6/80	None reported.

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2.03.12	IDENTIFICATION OF SUBCLINICAL MALNUTRITION. Expand the current research project to include additional families in a six county area. (KY-00116-15-41)	W. J. Fleming O. M. Cheaney C. Lee Kentucky State University Frankfort, KY 40601	6/71-6/76	None reported.
2.03.13	IDENTIFICATION OF SUBCLINICAL MALNUTRITION ASSOCIATED WITH MICROELEMENTS. Determine the ultrastructural manifestations of microelements, iron, zinc, and copper and their interrelationships. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-12A)	M. M. Rahman Department of Biology Kentucky State University Frankfort, KY 40601	2/74-2/79	None reported.
2.03.14	IDENTIFICATION OF SUBCLINICAL MALNUTRITION ASSOCIATED WITH MICROELEMENTS TO ENHANCE RURAL DEVELOPMENT. A determination of ultrastructural manifestations of microelements, iron, zinc, and copper and their interrelationships. (KY-X-PR-0001-12B)	M. M. Rahman Department of Biology Kentucky State University Frankfort, KY 40601	6/75-6/80	None reported.
2.03.15	IMPROVEMENT OF FOOD SAFETY AND CONSUMPTION IN RURAL, LOW-INCOME SOUTHSIDE VIRGINIA. Determine the situation with respect to food safety and consumption in rural homes, retail food stores, and small food establishments, and develop and evaluate methods for improvement. (VA-X-PR-0002-111779)	M. N. Jordan Virginia State College Petersburg, VA 23803	4/72-4/77	None reported.

2.03.16	IMPROVEMENT OF THE NUTRITION OF TEENAGERS IN SELECTED COUNTIES OF NORTH FLORIDA. Determine meal patterns and nutrient intakes of teenagers in selected counties of north Florida relative to race, income, education of parents, and previous nutrition knowledge. Develop techniques of improving the nutrient intakes of large numbers of teenagers, taking into account their cultural and social needs as well as the most prevalent nutrition deficiencies of the region. (FL-X-PR-0004-4733)	J. M. Axelson B. R. McClendon Department of Agriculture and Home Economics Florida A & M University Tallahassee, FL 32307	5/73-5/78	None reported.
2.03.17	INCOME AND EXPENDITURE PATTERNS FOR A GROUP OF SELECT COUNTIES IN KENTUCKY. Identify economic and noneconomic factors affecting food-consumption pattern and relate them with nutritional status of selected counties in the state of Kentucky. Correlation between the factors identified will be tested in low and middle income groups with ethnic diversity. Use of food stamps will probably be a variable. Estimate the amount of food subsidy required to improve the quality and quantity of diet of the poor people and evaluate the adequacy of current programs. (KY-X-PR-0001-13A)	D. S. Lee Department of Business Kentucky State University Frankfort, KY 40601	4/73-4/78	None reported.
2.03.18	LEVELS OF NUTRITION HEALTH IN RURAL EASTERN NORTH CAROLINA. Determine the level of nutrition for school children in terms of anthropometric and dietary indices of nutritional health. Evaluate these findings in the light of currently accepted disease patterns of malnutrition. (NC-00307-63-B)	S. N. Ganapathy Department of Home Economics North Carolina A & T State University Greensboro, NC 27412	6/71-6/76	None reported.

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2.03.19	MONITORING SUBCLINICAL MALNUTRITION: DIETARY SURVEY AND NUTRITIONAL HEALTH. To finalize assessments of potential correlates in subclinical malnutrition for a selected rural population. To extend the information on modular assessment of factors and status with respect to nutritional health. (KY-X-PR-0001-19-2)	M. Ruffin Department of Home Economics Kentucky State University Frankfort, KY 40601	6/75-6/80	None reported.
2.03.20	MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT: BUSINESS AND ECONOMICS. Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-13)	G. T. Ridgel D. S. Lee Department of Economics Kentucky State University Frankfort, KY 40601	4/72-4/77	None reported.
2.03.21	MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT: CHEMISTRY. Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-14)	J. C. Letton I. Ahmad Department of Chemistry Kentucky State University Frankfort, KY 40601	5/72-5/77	None reported.
2.03.22	MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT. Development of biochemical parameters for subclinical malnutrition. Subclinical manifestations of vitamin E excess of deficiency, its relationship to glucogenic and lipogenic effects in the development of cardiovascular diseases associated with subclinical	J. C. Letton I. Ahmad Department of Chemistry Kentucky State University Frankfort, KY 40601	3/73-3/78	None reported.

	malnutrition and also significance of age and genetic differences. Development of more sensitive bioassay techniques. (KY-X-PR-0001-14A)			
2.03.23	MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT. The development of biochemical parameters to study subclinical malnutrition to enhance rural development. Determination of subclinical manifestation of vitamin E deficiency, its interrelationship to the degree of unsaturation in fatty acids and its role on the transport of various glucosides. (KY-X-PR-0001-14B)	I. Ahmad J. C. Letton Department of Chemistry Kentucky State University Frankfort, KY 40601	2/74-2/79	None reported.
2.03.24	MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT: PSYCHOLOGY. Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-15)	L. P. Scott Z. L. Gilbert Department of Physiology Kentucky State University Frankfort, KY 40601	5/72-5/77	None reported.
2.03.25	MONITORING SUBCLINICAL MALNUTRITION: SOCIOECONOMIC VARIABLES. To extend the information base on assessments of factors and status with respect to human nutrition. Information on the effect of added food purchasing power of families participating in the food stamp program will be studied. (KY-X-PR-0001-13C)	D. S. Lee J. Sokoloff Kentucky State University Frankfort, KY 40601	6/75-6/80	None reported.
2.03.26	MONITORING SUBCLINICAL MALNUTRITION: SOCIOLOGICAL INDICATORS. To finalize assessments of potential correlates in subclinical malnutrition for a selected rural population, to extend the	T. Boggs A. W. Wright Department of Sociology Kentucky State University Frankfort, KY 40601	6/75-6/80	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	information base on assessment of factors to monitoring human nutrition. (KY-X-PR-0001-24C)			
2.03.27	MONITORING SUBCLINICAL MALNUTRITION: A TESTING PROGRAM OF THIRD AND FOURTH GRADERS. Obtain intelligence, personality, achievement, and academic data on a sample of second and third grade students and to relate these factors to nutritional state relative to rural development. (KY-X-PR-0001-15B)	L. Scott Z. Gilbert Department of Education Kentucky State University Frankfort, KY 40601	2/74-2/79	None reported.
2.03.28	NUTRITIONAL STATUS OF LOW-INCOME FAMILIES IN FOUR TENNESSEE COUNTIES. Study local food habits, attitudes, likes and dislikes; methods of food procurement (home grown, food stamps, commodity, and supplementary foods), buying practices, and cost of food stuffs; and the extent to which each commodity or supplementary food or food purchased with food stamps is incorporated into the family nutrition program including meal planning. Determine the possible food intake and nutritive value of diet consumed for two seasons during the year (spring and fall) and the nutritional status of selected family members by biochemical methods. (TN-X-PR-0004-34536)	O. L. Adams Department of Extension Education Tennessee A & I State University Nashville, TN 37203	2/72-2/77	None reported.
2.03.29	NUTRITIONAL STATUS OF RURAL PEOPLE IN HAMPTON COUNTY AND INFLUENCE OF NUTRITION EDUCATION. Use nutritional survey techniques to define the nutritional	K. Mathur South Carolina State College Orangeburg, SC 29115	4/72-4/77	None reported.

	needs of low-income rural people in Hampton County and evaluate the effectiveness of the Expanded Food Nutrition Education Program of the Cooperative State Extension Service in improving their nutritional status. (SC-X-PR-0001-1)			
2.03.30	NUTRITIONAL STATUS STUDIES OF ADOLESCENT GIRLS IN SELECTED AREA OF SOUTH CAROLINA. Determine the nutritional status of a group of pregnant adolescents using both the dietary survey method and biochemical analyses; identify nutritional problems in these subjects; provide appropriate nutrition education for the subjects; and evaluate the effects of the nutrition education program on food habits of the subjects. (SC-00005)	M. M. Abernathy South Carolina State College Orangeburg, SC 29115	6/71-6/76	None reported.
2.03.31	OCCUPATIONAL HAZARDS IN AGRICULTURE AND RURAL INDUSTRY. Determine size of losses in agriculture because of accidental injury; risk of injury in agriculture and related industry as compared to other occupations; if costs (i.e., losses) are reflected in market prices of labor and the product; methods by which risks of injury can be reduced in agricultural industry; and if industries in rural areas using agricultural work force experience higher rates than similar industry in urban areas. (NC-X-PR-0001-309-07)	R. Robbins Department of Economics University of North Carolina Greensboro, NC 27412	5/72-5/77	None reported.
2.03.32	PARASITES AND PARASITISM AMONG POOR INDIGENOUS PEOPLE OF RURAL LOUISIANA. Investigate parasites of economic and health importance to farmers and their farm animals and products. Study the bionomics	F. A. Christian Department of Biological Sciences Southern University Baton Rouge, LA 70813	1/72-1/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	of these parasites and some aspects of the host-parasite relationships. Investigate zoonoses and the possible roles of animal reservoirs in the epidemiology of disease-causing parasites in these rural areas. (LA-X-PR-0002-8-15-0)			
2.03.33	PATTERNS OF FOOD INTAKE AND NUTRITIONAL HEALTH OF GIRLS. Correlate food choices with nutritional health of girls 9-12 years of age; and assess the impact of economic level and ethnic background on food choices with nutritional health of girls 9-12 years of age. (AL-341)	E. Y. Davis Home Economics Research Alabama Agricultural Experiment Station Auburn, AL 36830	1/72-6/77	None reported.
2.03.34	PATTERNS OF FOOD INTAKE AND NUTRITIONAL HEALTH OF GIRLS. Correlate food choices with nutritional health of girls 9-12 years old; and assess the impact of economic level and ethnic background on food choices with nutritional health of girls 9-12 years old. (AR-804(S-87))	--	--	None reported.
2.03.35	POLYSTRUCTURAL COMPLEXES IN FOODS AND BODY TISSUES AND THEIR ROLE IN CARDIOVASCULAR PROBLEMS, PHASE III. Abstract not provided. (KY-X-PR-0001-14C)	I. Ahmad Department of Chemistry Kentucky State University Frankfort, KY 40601	5/75-5/80	None reported.
2.03.36	STATISTICAL INTERRELATIONS AMONG FACTORS ACCOMPANYING SUBCLINICAL MALNUTRITION. Consolidate multidisciplinary findings for a modular design to routinely assess subclinical malnutrition. (KY-X-PR-0001-16C)	W. Fleming C. Lockyer Kentucky State University Frankfort, KY 40601	6/75-6/80	None reported.

2.03.37	A STUDY OF FAMILY PLANNING OF LOW-INCOME FAMILIES IN SMALL TOWNS OF LOUISIANA. Investigate the need for family planning among rural low income families. Appraise the awareness of income limitations and its relationship to the size of the family. Know the attitudes toward and preferences of contraception. Recommend to the state and federal government and other funding agencies to establish a Family Planning Services Center in one of the rural areas. (LA-X-PR-0003-8-15-60)	K. Taj Department of Home Economics Southern University Baton Rouge, LA 70813	5/73-5/78	None reported.
2.03.38	THERAPEUTIC, PHYSICAL, PSYCHOLOGICAL AND REHABILITATED RESPONSE TO CERTAIN ASPECTS OF HORTICULTURE. Investigate and experiment with the therapeutic aspects of plant material, floral design, and other horticultural enterprises to establish the significance of horticulture in general as a means of giving the handicapped and underprivileged an outlook to strive for better and more productive goals in life. (SC-00011)	T. L. Senn A. R. Kingman Department of Horticulture Clemson University Clemson, SC 29631	11/71-6/76	T. L. Senn, et al. South Carolina's Hortitherapy Program: Innovative Development of Individual Potential Through Horticulture, South Carolina Agricultural Exp Sta Miscellaneous Rpt No. 10, Feb 1974. J. S. Berry. Hortitherapy in a Recreational Program for Substance Abusers, South Carolina Agricultural Exp Sta Miscellaneous Rpt No. 11, Oct 1974. P. Robinson. Hortitherapy in Recreational Program for the Visually Impaired, South Carolina Agricultural Exp Sta Miscellaneous Rpt No. 12, Oct 1974. J. Hiott. Hortitherapy in Recreational Program for the Mentally Retarded, South Carolina Agricultural Exp Sta Miscellaneous Rpt No. 13, Oct 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.03.39	A STUDY OF FIRE HAZARDS IN HOMES OF LOW-INCOME FAMILIES OF SOUTHSIDE VIRGINIA. Apply the fire hazards in homes of low-income families of southside Virginia and develop guidelines to prevent accidental fires in the homes of low-income families. (VA-X-PR-0004-1771A)	A. J. Miller Virginia State College Petersburg, VA 23803	5/73-5/78	None reported.
2.04	Major Area: PEOPLE BUILDING	Minor Area: DEMOGRAPHY		
2.04.1	ANALYSIS OF DEMOGRAPHIC DATA FOR THE HUMAN RESOURCES OF SOUTH CAROLINA. Obtain, process, tabulate, and synthesize available population data for the human resources of South Carolina residence categories and geographic divisions. Analysis will include past, present, and expected trends; decline and growth areas; and national and regional comparisons. U. S. Departments of Commerce and Agriculture consenses will comprise the prize data sources. A series of reports will be published. (SC-00970)	E. L. McLean Department of Agricultural Economics and Rural Sociology South Carolina Agricultural Experiment Station Clemson University Clemson, SC 29631	7/71-6/76	None reported.
2.04.2	ANALYSIS OF POPULATION DISTRIBUTION EFFECTS IN NONMETROPOLITAN AREAS OF GEORGIA AND THE SOUTHEAST. Analyze shifts in the demographic composition of nonmetropolitan areas in Georgia and the southeast resulting from recent migration streams away from metropolitan areas, and develop a socioeconomic	J. D. Tarver Department of Agricultural Economics University of Georgia Athens, GA 30601	8/74-6/77	None reported.

	resource profile to assist community planners and other leaders in the design of optimum city growth centers. (GA-00500)			
2.04.3	CHANGE IN THE NATURE, COMPOSITION, AND SOCIOECONOMIC CONDITIONS OF BLACK FAMILIES IN TEXAS. Describe patterns of family life among black families in metropolitan areas, assess level of living among these families at various stages of the family life cycle, and evaluate trends and conditions emerging from analysis in reference to comparable groups of nonwhite families. (TX-X-PR-0002-G-1968)	W. P. Kuvlesky Prairie View A & M College Prairie View, TX 77445	4/72-4/77	None reported.
2.04.4	DISTRIBUTION, COMPOSITION, AND MAJOR DEMOGRAPHIC PROCESS OF POPULATION. Supply population, housing, agricultural, and manufacturing data for the using public (farm operators, businessmen, community leaders, government officials and policy makers). Publish reports in forms usable by the general public. Consult and fill requests for data by phone, letters, and personal discussions. Provide support data for related social and economic (not population) research, demographic research, and analysis. Describe, analyze, and interpret trends in size, growth, and distribution of population and its social and economic aspects. Investigate and analyze factors related to the components of population change--migration, mortality, and fertility. Analyze demographic processes and important and emerging patterns of population trends. (MS-4004)	M. El-Attar E. S. Bryant Department of Sociology and Anthropology Mississippi State University Mississippi State, MS 39762	9/71-6/76	Estimates of the Population of Mississippi Counties and Metropolitan Areas: July 1, 1972 and 1973, Population Estimates, Series P-26, No. 28, Sept 1974. Mississippi's Farming and Nonfarming Population: A Comparison of Characteristics and Trends: 1950 to 1970, MAFES Bulletin 809, Apr 1974. M. El-Attar and J. Saunders. "Mississippi Jobs: Measuring Components of Occupational Change," Growth and Change, Vol V, No. 4, Oct 1974, pp 32-38. M. El-Attar. Some Aspects of Population Dynamics in Mississippi, MAFES Bulletin 814, Aug 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				Migration in Relation to Some Selected Socio-Economic Factors in Mississippi Rural Sociology in the South: 1974, Proceedings of Rural Sociology Section, SAAS, 18 pp. M. El-Attar. Changes in the Occupational and Industrial Structures of County Employment in Mississippi, 1950-1960, Appendices B & C to Technical Report No. 2, MAFES; Technical Report in Sociology & Rural Life, No. 3, Dec 1971. M. El-Attar and G. O. Windham. Migration and Occupational Change in Mississippi: A Multivariate Analysis, MAFES. M. El-Attar. Mississippi Population by County, Age, Sex, and Color: 1960, 1970, and Projections to 1980, MAFES Bulletin 815, Mar 1975. M. El-Attar and D. L. Steinman. Internal Migration Correlates in Mississippi, 1960-1970, MAFES, Division of Sociology and Rural Life; appeared in Rural Sociology in the South, 1975.

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2.04.5	AN EVALUATION OF RURAL ECONOMIC GROWTH IN A CHANGING ECONOMY. Ascertain rural economic structure of geographic areas of Georgia designated as State Economic Areas of UNITED STATES CENSUS OF AGRICULTURE, U. S. Department of Commerce, Bureau of the Census. Evaluate both farm and off-farm labor supplied by the farm family. Discover the interrelationship between the farms and nonfarm economies. Evaluate the prospects for decreasing the out-migration of people from rural areas. Continue movement toward the development of rural economic growth parameters. Ascertain growth pattern likely to guide economic growth and development in rural areas. (GA-01174)	W. W. Harper Department of Agricultural Economics Georgia Agricultural Experiment Station Experiment, GA 30212	7/73-6/76	None reported.
2.04.6	FISCAL STRUCTURE, RURAL DEVELOPMENT, AND SPATIAL DISTRIBUTION OF METROPOLITAN POPULATIONS. Investigate determinants of spatial distribution of population and density among urban, suburban, and rural areas of North Carolina, the impact of alternative fiscal arrangements on land use, rural development, and urban growth and the relationships among population distribution and density and the supply and cost of public services in sparsely populated rural areas. (NC-13419)	D. N. Hyman Department of Economics North Carolina State University Raleigh, NC 27607	2/74-1/76	D. N. Hyman. Urbanization in North Carolina, Economics Information Rpt No. 38, North Carolina State University, Mar 1974. D. N. Hyman. Determinants of Municipal Expenditures in North Carolina, Economic Research Rpt No. 30, North Carolina State University, Nov 1974.
2.04.7	HUMAN RESOURCES IN RURAL AREAS OF WEST TENNESSEE. Collect, organize, and analyze socioeconomic data from west Tennessee counties that will be useful to those who develop programs to improve the economic well being of these rural areas. (TN-X-PR-0001-34556)	G. M. Telwar Department of Agricultural Education Tennessee A & I State University Nashville, TN 37203	3/72-3/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.04.8	THE IMPACT OF DEMOGRAPHIC CHANGES OF THE TENNESSEE RURAL POPULATION. Analyze the rate of change, distribution, and composition of the Tennessee population. Analyze the demographic factors related to fertility and mortality differences. Determine the social and economic reasons for out-migration, in-migration, and return migration in selected Tennessee counties. Determine the impact of mobility and migration upon migrants for both sending and receiving communities in selected Tennessee counties. (TN-00382)	F. O. Leuthold Department of Agricultural Economics & Rural Sociology University of Tennessee Knoxville, TN 37916	12/73-6/78	F. O. Leuthold. Commuting Patterns of the Tennessee Population, Farm and Home Science, Oct-Dec 1974.
2.04.9	MIGRATION PATTERNS OF THE TENNESSEE POPULATION. Tennessee has been experiencing a sharp loss of young adults, a rapid decline in the birth rate, and a slight in-migration. This study seeks to determine who leaves and who stays, the effects of leaving or staying, the areas of residence of out-migrants, factors associated with out-migration, and effect of employment opportunities. (TN-274)	F. O. Leuthold Department of Agricultural Economics and Rural Sociology University of Tennessee Knoxville, TN 37616	12/67-	None reported.
2.04.10	PROBLEMS OF POPULATION DECLINE IN RURAL AREAS. Estimate effects of rural-urban migration on income to rural resources, personal income and its distribution and economic and demographic interactions; analyze actual and potential employment of displaced rural people in nonfarm employment by capital importation; evaluate money income as a measure of well-being among rural farm families, and to	B. L. Gardner Department of Economics North Carolina State University Raleigh, NC 27607	2/71-1/76	B. L. Gardner. Farm Population Decline and the Income of Rural Families, American Journal of Agricultural Economics, 56(3), 1974, pp 600-606.

	develop a more comprehensive indicator of rural economic development. (NC-013231)			
2.04.11	SOCIOECONOMIC DEVELOPMENT IN SOUTHWEST MISSISSIPPI. Investigate the major sources of income and analyze the level and distribution of both natural and human resources; identify the crucial socioeconomic variables restricting the economic development of the region; explore the possible alternative solutions and the optimal allocation of adjustment of resources; and prescribe the best course of action to take in order to achieve rapid income-welfare growth. (MS-X-PR-0003-1974-2)	P. Kau M. S. Dhaliwal G. Sewell Department of Social Science Alcorn State University Lorman, MS 39096	6/74-6/78	None reported.
2.04.12	SOCIAL AND ECONOMIC INDICATORS FOR DEVELOPMENT OF NORTH CAROLINA. Identify, aggregate, disaggregate, and provide written guidelines for interpretation of critical pieces of data available from secondary sources that if available and interpreted will guide the decision maker in making sound decisions in regard to his area of responsibility. Develop a mechanism for the institutionalization of this data assembly and data interpretation system and devise a system of constant updating. (NC-09502)	T. N. Hobgood M. E. Voland Department of Sociology and Anthropology North Carolina State University Raleigh, NC 27607	5/74-6/76	None reported.
2.04.13	TENNESSEE RURAL CHANGE PERSPECTIVES. Develop a series of overview analyses about the socioeconomic trends, adjustment problems, opportunities, and assistance needs emerging in rural Tennessee--and their implications for specific categories of people, localities, and programs--as a perspective-giving aid to leaders, planners, and change-agents. (TN-00439)	D. W. Brown Department of Agricultural Economics and Rural Sociology University of Tennessee Knoxville, TN 37916	7/75-6/78	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.05	Major Area: PEOPLE BUILDING	Minor Area: EDUCATIONAL PROGRAM EFFECTIVENESS		
2.05.1	EFFECTS OF EDUCATION AND FOOD PROGRAMS UPON HEALTH AND LEVEL OF LIVING. Assess the effectiveness of nutrition and health education on the attitudes and practices of low-income rural parents. Assess the effectiveness of social-sensory stimulation of infants born to these parents. Assess the effectiveness of supplementary foods on the growth and development of these children. Determine the interrelationship between nutrition and social sensory stimulation of infants on their development. Study the manner in which nutrition and social-sensory stimulation interact. (VA-0616158)	S. J. Farrier J. Wentworth Management Housing and Family Development VPI and State University Blacksburg, VA 24061	2/71-6/76	None reported.
2.05.2	EFFECTS OF MANPOWER TRAINING ON RURAL DISADVANTAGED FAMILIES. Analyze and appraise the effects of manpower development and training on improving and upgrading the socioeconomic levels of rural disadvantaged residents of west Tennessee. Also determine the relationships between employment status and vocational, personal, and social adjustments of the rural disadvantaged. (TN-X-PR-0001-34916)	E. Witherspoon Tennessee A & I State University Nashville, TN 37203	9/73-3/78	None reported.
2.05.3	INFORMATION CONSUMPTION BY THE CLIENT SYSTEM AS A STRATEGY TO REDUCE RURAL POVERTY. The effect of information consumption by the client system on reducing the impact of rural poverty;	J. S. Dhillon Department of Agriculture and Home Economics Florida A & M University Tallahassee, FL 32307	11/72-11/77	J. S. Dhillon. Information Consumption by Low-Income Families to Reduce Rural Poverty in Florida, Research Instruments,

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	identification of antecedent variables (personal and institutional) significantly associated with information consumption; classification of various types of information on the basis of consumption value; development of a model of optimum information for reducing the impact of rural poverty. (FL-X-PR-0003-4248)			Community Development and Research Program, Florida A & M University.
2.05.4	INSTITUTION BUILDING (PHASE I): PERCEPTION OF CONSTRAINTS AND INCENTIVES IN THE ACCEPTANCE OF NEW IDEAS AND ECONOMIC OPPORTUNITY PROGRAMS BY THE RURAL LOW INCOME FAMILIES. Identify constraints and incentives which affect the acceptance and adoption of new ideas and economic opportunity programs; find out the relationship of various demographic and social characteristics of the respondents with their perception of constraints and incentives; identify community variables which are significantly associated with the respondents' perception of constraints and incentives.	J. S. Dhillon Center for Community Development and Research Florida A & M University Tallahassee, FL 32307	7/75-6/78	None reported.
2.05.5	MAN/COMPUTER SYMBIOSIS: THE RURAL DEVELOPMENT AND ACADEMIC IMPLICATIONS. Monitor unfolding electronic technology; implement user oriented electronic hardware and software; and develop a total electronic information system as applied and best suited to information gathering, storage and retrieval, research units, rural development, rural communities, and families. Evaluate the social impact of such implementation and development as it affects research units, rural communities and families. (TX-01995)	S. E. Wilson Department of Rural Sociology Texas A & M University College Station, TX 77843	3/73-8/76	J. G. McNeely. Rural Land Resource Problem..A Need for Planning, Texas Agricultural Exp Sta, Texas A & M University, MP-1190, May 1975.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.05.6	A STUDY OF CURRICULAR NEEDS IN AGRICULTURAL EDUCATION. The primary purpose of the project is to appraise and develop curricula in vocational education in agriculture to the end that recipients of such curricula may achieve maximum success in employment. In order to accomplish this purpose the following objectives will be achieved: appraise different types of vocational agriculture programs in public schools, develop a counseling program for agricultural education students, develop a "feedback" system from graduates. (TX-06133)	E. S. Webb J. P. Grimes D. R. Herrin Department of Agricultural Economics & Rural Sociology Texas A & M University College Station, TX 77843	8/74-11/78	None reported.
2.06	Major Area: PEOPLE BUILDING		Minor Area: HOUSEHOLD DECISIONS AND MANAGEMENT	
2.06.1	BASIC HUMAN NEEDS IN RURAL DEVELOPMENT: CLOTHING. Determine the fundamental needs in clothing among the population of Claiborne County in Southwest Mississippi; identify the critical factors undergirding the status of needs in clothing among the population of Claiborne County in Southwest Mississippi; develop recommendations based on pilot tests, for meeting the fundamental needs in clothing among the population of Claiborne County in Southwest Mississippi. (MS-X-PR-0003-1973-3)	J. M. Fobbs Department of Home Economics Alcorn State University Lorman, MS 39096	5/73-5/78	None reported.

2.06.2	INCOME AND EXPENDITURE PATTERNS FOR A GROUP OF SELECT COUNTIES IN KENTUCKY. Identify economic and noneconomic factors affecting food-consumption pattern and relate them with nutritional status of selected counties in the state of Kentucky. Correlation between the factors identified will be tested in low and middle income groups with ethnic diversity. Use of food stamps will probably be a variable. Estimate the amount of food subsidy required to improve the quality and quantity of diet of the poor people and evaluate the adequacy of current programs. (KY-X-PR-0001-13A)	D. S. Lee Department of Business Kentucky State University Frankfort, KY 40601	4/73-4/78	D. S. Lee and G. T. Ridgel. Income and Food Expenditure Patterns for a Selected Group of Families in Frankfort - Franklin County, Kentucky State University, Cooperative State Research Service, May 1974.
2.06.3	INSURANCE PRACTICES OF LOW-INCOME FAMILIES IN MISSISSIPPI. Determine the kinds, amount, and cost of insurance policies carried by low-income families. Determine how, when, and where low-income families pay for insurance and where policies are kept. (MS-4105)	P. T. Harris Department of Home Economics Mississippi State University Mississippi State, MS 39762	5/74-4/76	None reported.
2.06.4	MANAGEMENT STYLES AND SELF ESTEEM LEVELS IN RURAL LOUISIANA FAMILIES AND HOMES. Evaluate quality of rural family life with a self-esteem measure; assess effects of employment status of wife, family mobility, family boundary characteristics, and decision making and task performance styles on self esteem; and interpret results in a family ecological systems framework. (LA-BO-1723)	C. L. Engebretson Department of Home Economics Louisiana State University Baton Rouge, LA 70803	1/75-12/79	None reported.
2.06.5	NEEDS FOR CHILD CARE AND POTENTIAL FOR RURAL FAMILY AND COMMUNITY DEVELOPMENT. Assess provisions and needs for child	S. M. Shoffner Department of Home Economics	7/74-6/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	care ages 0-12 years in rural communities; identify activities open to parents conducive to promoting individual, family and rural development; determine how mother's released time resulting from use of child care services could contribute to participation in family development; and involve potential recipients of child care services in surveying resources for those services. (NC-11098)	University of North Carolina Greensboro, NC 27412		
2.06.6	NEEDS FOR CHILD CARE AND POTENTIAL FOR RURAL FAMILY AND COMMUNITY DEVELOPMENT. Assess existing provisions and expressed needs for child care services for children 0-12 years of age in selected rural communities in the Carolinas; identify activities open to parents in promoting potentials for individual, family, and rural community development; determine how mother's released time provided by child care services could contribute to increased participation in developmental activities for families and communities; involve interested potential recipients of child care services in surveying local resources for providing child care services. (SC-00096)	K. S. Powell Department of Home Economics Winthrop College Rock Hill, SC 29730	7/74-6/77	None reported.
2.06.7	TEXTILES AND CLOTHING INFORMATION NEEDS OF LOW-INCOME FAMILIES IN NORTH CAROLINA. Provide insights into clothing needs of the disadvantaged; obtain information on clothing owned by low-income families in North Carolina; find out what clothing	M. Smith Department of Home Economics University of North Carolina Greensboro, NC 27412	5/72-5/77	None reported.

families would like to add to the wardrobe, and why; determine qualities in clothing valued most, and those valued least by low-income families; find out where and when low-income families make their clothing purchases; find out how knowledgeable families are in terms of clothing care and find out if low-income families are concerned about the flammability of textiles. (NC-X-PR-0003-309-07)

2.07	Major Area: PEOPLE BUILDING		Minor Area: COMMUNITY DECISION MAKING	
2.07.1	DECISION OF PROFESSIONALS TO LOCATE IN RURAL AREAS. Identify the professional-occupational categories in which perceived shortages exist and develop information base that can be used by small community leadership to develop strategies and plans for alleviating the problem. (NC-13442)	M. M. Sawhney S. C. Mayo Department of Sociology and Anthropology North Carolina State University Raleigh, NC 27607	6/74-5/76	None reported.
2.07.2	RURAL COMMUNITY PROBLEMS AND SOLUTIONS AS PERCEIVED BY INDIGENOUS LEADERS AND NON-LEADERS. Ascertain in selected rural communities in the state the needs and problems of the community as perceived by leaders and nonleaders in these communities. Determine what leaders and nonleaders think are the solutions to community problems. Determine community-focused sentiments and cohesiveness as related to community problems and problem-solving. (LA-X-PR-0001-8-15-19)	J. Moland J. H. Hope Southern University Baton Rouge, LA 70813	2/72-2/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.08	Major Area: PEOPLE BUILDING		Minor Area: LEVEL OF LIVING AND QUALITY OF LIFE	
2.08.1	AN ANALYSIS OF THE SOCIOECONOMIC CHARACTERISTICS OF BLACK TOWNS IN OKLAHOMA. Identify and evaluate socioeconomic factors which determine class (i.e., occupation, income, education) and local supply and demand for labor. Determine role of social organizations in community development. Determine degree to which the community is self-sufficient. Determine potential for development of communities (i.e., job opportunities, education, housing). (OK-X-PR-0004-274-S-1)	C. A. Humphrey A. L. Fisher Langston University Langston, OK 73050	4/72-4/77	None reported.
2.08.2	COMMUNITY STRUCTURE AND QUALITY OF LIFE: MEASUREMENT AND ANALYSIS. Refine measures of quality of life and related variables for analysis and evaluation of major social and economic changes for past two decades in selected localities. Identify and interpret selected quality of life consequences of changes: regional integration; locality integration; policy decisions; population, ecological, and general socioeconomic characteristics. Provide information to decision makers on likely consequences of alternative policy approaches. (TX-02893-RI)	W. G. Howard Department of Rural Sociology Texas A & M University College Station, TX 77843	4/75-6/78	None reported.
2.08.3	IMPROVING INCOME AND FAMILY LIVING OF LIMITED RESOURCE FARM FAMILIES. Assess the level of living of rural farm families. Obtain basic data on farm resources and farming systems. Obtain	R. C. Woodworth Rural Development Center Tennessee A & I State University Nashville, TN 37203	2/74-2/79	S. L. Comer. Resource Allocations for Maximizing Income on Limited Resource Farms in Giles County, Tennessee, unpublished

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	information and assess reasons for farming, alternatives, interest in nonfarm jobs and characteristics and aspirations of low-income farmers. Assess the adjustment potential of low-income farm families. (TN-X-PR-0006-35004)			thesis, Tennessee State University, 1974.
2.08.4	INCOME INEQUALITY AND ITS RELATIONSHIP TO COMMUNITY STRUCTURES AND COMMUNITY INTERACTION IN NORTH ALABAMA. Determine variation and change, and other sources, in income inequality among 96 census county divisions (CCD) of north Alabama. Identify the major determinants and correlates of variation and change in income inequality with a focus on spatial concentrations of relative poor blacks and whites in rural and rural-urban communities. Foster an experimental social laboratory in selected communities. Publish and distribute statistical and strategy profiles of CCD2, locating the rural "relative poor" and identifying most promising paths and of the relative poor category. (AL-X-PR-0003-575)	G. Wheelock Department of Agricultural Education Alabama A & M College Normal, AL 35762	10/74-10/79	None reported.
2.08.5	LOUISIANA TITLE V PILOT PROGRAM FOR LAFOURCHE AND TERREBONNE PARISHES. Improve the economic and social well-being of the residents in the two-parish area; provide current research information on alternative solutions to problems identified by the Cooperative Extension Service leadership and problem identification survey in each of the two parishes; determine the social, economic, and natural resource characteristics of the area; identify the existing organizations concerned with development of the area;	T. H. Klindt L. W. Guedry T. E. Xoebernick Department of Agricultural Economics and Agribusiness Louisiana Agricultural Experiment Station Baton Rouge, LA 70803	1/74-12/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	determine the impact of the leadership and problem identification study on interorganizational linkages among the organizations concerned with development; and explore alternatives for maximizing income to low-income agricultural producers in the two-parish area. (LA-1685)			
2.08.6	LOW-INCOME RESEARCH PROGRAM (TITLE V) RURAL DEVELOPMENT ACT. Determine incidence, characteristics, distribution, and major causes resulting in limited resource families. Determine types of assistance available by these families. Evaluate policies both public and private to alleviate the factors affecting limited resource families with regard to their distribution of benefits from the public and private sectors. (GA-0003-0580)	E. E. Brown M. Mara Department of Agricultural Economics University of Georgia Athens, GA 30601	6/74-6/77	None reported.
2.08.7	PILOT RURAL DEVELOPMENT PROGRAM IN FIVE COUNTIES, TENNESSEE (TITLE V RURAL DEVELOPMENT ACT OF 1972). Improve per capita income and quality of life of rural residents in the pilot counties. (TN-03305)	T. H. Klindt Department of Agricultural Economics & Rural Sociology University of Tennessee Knoxville, TN 37916	7/73-6/76	None reported.
2.08.8	POVERTY ISOLATION IN NINETEEN SELECTED COUNTIES IN MIDDLE GEORGIA. Identify poverty-cycle families in nineteen middle Georgia counties and identify and isolate the causal related factor that contributes to and perpetuates poverty. Assist	M. E. Walker, Jr. Department of Agriculture Fort Valley State College Fort Valley, GA 31030	5/72-5/77	None reported.

	the Extension Service and other agencies to establish remediation programs. (GA-X-PR-0004-72HR-01)			
2.08.9	STUDY OF HUMAN AND NATURAL RESOURCES OF DISADVANTAGED PEOPLE OF SOUTHEAST ARKANSAS. Identify and locate farmers in each county with income below $3,500. Describe certain personal and family characteristics which limit the opportunity of adjustment in income. Locate and identify farms whose size will allow them to produce cotton, soybean, and rice; and those too small for this type of commercial crops. Develop small farm resource situation and farm programs utilizing production data to maximize farm income. (AR-X-PR-0006-45-2120)	O. R. Holiday D. J. Houston Department of Agriculture University of Arkansas Pine Bluff, AR 71601	2/73-2/78	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.01	Major Area: ECONOMIC DEVELOPMENT	Minor Area: HOLDING AND ATTRACTING INDUSTRY		
3.01.1	RESOURCE REQUIREMENTS FOR VARIOUS PLANT SIZES IN AGRICULTURAL MARKETING AND SUPPLY INDUSTRIES. Provide bench mark information on the fixed and operating capital requirements for various sizes of plants in selected agricultural marketing, supply, and processing industries. Provide information on anticipated income, expenses, net margins and debt-repaying capability for various plant sizes in selected business management aspects of firms engaged in selected agricultural marketing, supply, and processing operations. (LA-BO-1227)	E. P. Roy H. D. Traylor Department of Agricultural Economics & Agribusiness Louisiana State University Baton Rouge, LA 70803	5/65-7/77	E. P. Roy and F. J. Bordelon. Markets and Prices for Salt-Water Bottomfish in Selected Areas of Louisiana, DAE No. 466, June 1974. E. P. Roy and F. J. Bordelon. Selected Shrimp and Seafood Statistics for Louisiana and the United States, AEA Information Series No. 33, Jan 1974.
3.02	Major Area: ECONOMIC DEVELOPMENT	Minor Area: PLANT LOCATION		
3.02.1	ECONOMIC, LOCATIONAL, AND INSTITUTIONAL FACTORS AFFECTING INDUSTRIAL PLANT LOCATION IN NONMETROPOLITAN AREAS. Determine the importance of selected characteristics of rural communities and their efforts to attract industry in explaining the location of industrial plants by size of employment and by types of industry among nonmetropolitan areas. Predict the probable success of various combinations and levels of direct and indirect inducements and socioeconomic environments in attracting industry to nonmetropolitan areas. (KY-00097)	E. D. Smith Department of Agricultural Economics University of Kentucky Lexington, KY 40506	1/74-6/78	None reported.

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3.02.2	ECONOMIC, LOCATIONAL, AND INSTITUTIONAL FACTORS AFFECTING INDUSTRIAL PLANTS IN NONMETROPOLITAN AREAS. Determine the importance of selected characteristics of rural communities and their efforts to attract industry in explaining the location of industrial plants by size of employment and by type of industry among nonmetropolitan Tennessee communities. Predict the probable success of various combinations and levels of direct and indirect inducements and socioeconomic environments in attracting industry to nonmetropolitan Tennessee communities. (TN-00385)	B. J. Deaton Department of Agricultural Economics & Rural Sociology University of Tennessee Knoxville, TN 37916	1/74-6/78	B. J. Deaton and D. Gunter. The Influence of Community Characteristics of Industrial Plant Location and Expansion: A Preliminary View, Tennessee Farm and Home Science, July-Aug-Sept 1974.

3.03	Major Area: ECONOMIC DEVELOPMENT		Minor Area: INCOME AND EMPLOYMENT EFFECTS OF RURAL INDUSTRY	
3.03.1	ADJUSTMENT POSSIBILITIES IN RURAL AREAS. Identify in rural areas present and potential strengths and limitations of the major sectors including farming, industry, education, health, housing, and government. Evaluate industries as to their potential for development and utilization of a community's resources. (VA-0200308)	R. G. Kline Department of Agricultural Economics VPI & State University Blacksburg, VA 24061	1/73-6/76	S. Isang. An Economic Analysis of the Potential of Virginia's Processing Tomato Industry, doctoral dissertation, Agricultural Economics Department, VPI and State University, Dec 1974.
3.03.2	AGRICULTURAL AND RURAL LABOR MARKETS. Determine the response in quality and quantity of agricultural labor to changes in economic incentives. Analyze alternative public policies having an impact on agricultural and rural labor market. Analyze alternative public policies affecting migrant labor, and	R. D. Emerson Department of Food & Resource Economics University of Florida Gainesville, FL 32601	12/72-6/77	R. D. Emerson. Labor Policies and Florida Vegetable Production, Proceedings of the Florida State Horticultural Society, 86, May 1, 1974, pp 214-219. R. D. Emerson and L. Polopolus. Unemployment

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	determine their likely impact in Florida and the Eastern Seaboard Migratory Stream. (FL-AS-01632)			Insurance and Agriculture, Florida Agricultural Exp Sta, S-227, Sept 1974.
3.03.3	ANALYSIS OF RURAL LABOR MARKET TRENDS, INSTITUTIONS AND POLICIES IN GEORGIA. Translate existing measures of underemployment into unemployment equivalents and other indexes of need, conduct, and attitudinal survey of Georgia farm people to determine work preferences, labor requirements, and the need for labor contracts, evaluate the importance of off-farm employment to farmers, and appraise public implications of farm labor situations and evaluate the role of rural institutions in achieving more effective use of manpower resources. (GA-00498)	J. W. Nixon Department of Agricultural Economics University of Georgia Athens, GA 30601	9/74-6/77	Some Perspectives on Rural Manpower Situations and Needs in the Southeast. Background paper and conference proceedings, conference of Southeastern Regional Manpower Advisory Committee, Gatlinburg, TN, May 1974.
3.03.4	AN EVALUATION OF ECONOMIC BENEFITS AND COSTS OF INDUSTRIALIZATION IN RURAL COMMUNITIES. Determine the level of industrialization program costs incurred by rural communities and the distribution of the burden of these costs among various sectors of the public. Estimate the level and distribution of the subsequent income and employment effects due to industrialization on residents of affected rural communities and areas. Finally, to determine the economic impact of industrialization on the public service systems of rural communities and areas and the distribution of the	L. L. Jones Department of Agricultural Economics Texas A & M University College Station, TX 77843	5/74-6/77	J. P. Warren, et al. Cost of Land Subsidence Due to Groundwater Withdrawals, TR-57, Texas Water Resources Institute, Texas A & M University, Jul 1974. L. L. Jones, et al. Economic Implications of Land Subsidence in the Houston-Baytown Area, proceedings of the Water for Texas Conference, Texas A & M University, Sept 1974.

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	consequent costs among various categories of rural residents. (TX-06084)			J. E. Casey, L. L. Jones, and R. D. Lacewell. Impact of Fuel Shortages on Agricultural Output and Income: Southern High Plains of Texas, Southern Journal of Agricultural Economics, Dec 1973; also paper presented at meetings of Western Agricultural Association, Moscow, Idaho, July 1974.
3.03.5	FACTORS AFFECTING THE MARKETING OF WOOD HANDICRAFT PRODUCTS IN KENTUCKY. Determine the economic efficiency of present and alternative systems for production and marketing of wood handicrafts. Determine the feasibility of a vertically integrated production and marketing organization for wood handicrafts. Estimate the cost function (cost-output relationships) for wood handicraft firms. (KY-00096)	J. C. Redman Department of Agricultural Economics University of Kentucky Lexington, KY 40506	2/73-12/77	None reported.
3.03.6	THE IMPACT OF INDUSTRIALIZATION ON THE ORGANIZATION AND DEVELOPMENT OF RURAL AREAS IN LOUISIANA. To conduct a comprehensive study of the impact of industrialization on rural community development and organization with reference to effects on occupational structure, development benefits and social costs, quality of life, farming and agricultural organization, population stability, community institutions and services, and attitudinal dispositions toward industry and toward community institutions.	T. J. Durant, Jr. Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803	1/76-12/78	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.03.7	JOB CREATION AND EMPLOYMENT IN RURAL AREAS. Determine the impact of job creation and employment on rural development within selected areas of Mississippi through the study of family socioeconomic status, labor force participation, employment types, job mobility, training and retraining, and other programs. (MS-4302)	J. C. Crecink Department of Agricultural Economics Mississippi State University Mississippi State, MS 39762	7/71-6/76	None reported.
3.03.8	LABOR INSTABILITY IN LOUISIANA'S MARITIME INDUSTRIES. The overall objective of the project is to determine the social and cultural factors associated with high rates of turnovers among workers in Louisiana's offshore service industry and to formulate solutions to alleviate the problem. (LA-1778)	L. Perez A. L. Bertrand Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803	1/75-8/77	None reported.
3.03.9	PRESENT IMPACT AND DEVELOPMENT OF THE CRAFT INDUSTRY IN RURAL TENNESSEE. Determine the economic impact of crafts on local and state economies and project its impact on jobs and incomes in Tennessee. Determine the noneconomic (socio-psychological) factors derived by craftsmen in producing crafts and in membership in craft cooperatives and also evaluate alternative organizational structures and leadership requirements of cooperatives to fulfill the needs of craftsmen. Evaluate present marketing systems being used by craftsmen and evaluate alternative methods for improving the present	R. Daniel L. Morgan M. Yetley Department of Agricultural Economics & Rural Sociology University of Tennessee Knoxville, TN 37916	7/74-6/77	None reported.

	marketing system to obtain maximum gain through coordinating supply procurement, production, and marketing. (TN-00422)			
3.03.10	PRESENT IMPACT AND DEVELOPMENT OF THE CRAFT INDUSTRY IN THE RURAL TENNESSEE ENVIRONMENT. Evaluate the economic and social factors involved in production, development, and growth of craft industries in Tennessee. Determine the economic impact of crafts and craft cooperatives on local and state economies; and noneconomic factors derived by craftsmen in production of crafts and in membership in craft associations or cooperatives. Evaluate present marketing systems being used by craftsmen in Tennessee and the impact of the craft industry on jobs and incomes. Evaluate alternative methods of correcting problems. (TN-FC-S1-53)	R. Daniel W. R. Seymour Department of Agricultural Economics & Rural Sociology University of Tennessee Knoxville, TN 37916	6/74-6/77	None reported.

3.04	Major Area: ECONOMIC DEVELOPMENT	Minor Area: INCOME AND EMPLOYMENT EFFECTS OF NATURAL RESOURCE DEVELOPMENT

3.04.1	ANALYSIS OF OPPORTUNITIES TO DEVELOP RURAL TIDELANDS INDUSTRIES THROUGH IMPROVED FINANCIAL MANAGEMENT. Determine the costs and returns for selected fishing and sea-related business activities; determine the amount and types of financing required for selected enterprises; identify the extent and types of financing now used by producers; identify the characteristics used by lenders in determining amounts and terms of credit; identify the methods used to project debt repayment capabilities;	J. W. Hubbard D. E. Crawford K. J. Roberis Department of Agricultural Economics & Rural Sociology Clemson University Clemson, NC 29631	7/73-6/76	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	analyze the impact of various debt structures, technologies, institutional conditions, and product prices on the costs and returns for selected sizes and types of commercial fishing firms; develop a cash-flow analysis for a typical firm. (SC-00073)			
3.04.2	AN ECONOMIC ANALYSIS OF ADJUSTMENTS IN RURAL HUMAN RESOURCES AS NEW TECHNOLOGY IS ADOPTED. Ascertain and analyze magnitude and socioeconomic characteristics of the seasonal labor force utilized in South Carolina agriculture. Determine labor displacement resulting from adoption of mechanical harvesters in South Carolina agriculture. Determine retrainability of displaced worker and identify the amount and type of educational costs necessary to render him marketable. Identify and estimate the magnitude of any intercommodity effects associated with the adoption of a mechanical harvester in one agricultural sector. Determine social rate of return on research and development costs of mechanical harvesters. (SC-00058)	R. A. Jobes C. S. Thompson J. W. Jordan Department of Agricultural Economics & Rural Sociology Clemson University Clemson, SC 29631	7/73-6/76	None reported.
3.04.3	EFFECTS OF INVESTMENTS IN RECREATIONAL RESOURCES ON INCOME AND EMPLOYMENT IN BARBOUR AND MARSHALL COUNTY. Estimate the relationship between various kinds and amounts of investments in rural recreational resources and economic development and determine the relationship between various types of	E. W. McCoy Department of Agricultural Economics & Rural Sociology Auburn University Auburn, AL 36830	3/71-6/76	*E. W. McCoy and C. L. Vanlandingham. Camping, Outdoor Recreation and Parks as Related to Everyday Living, Highlights of Agricultural Research, Alabama Agricultural Exp Sta, Vol 21, No. 1.

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	socioeconomic changes and level and pace of economic development in two Alabama counties. (AL-00315)			E. W. McCoy and M. S. Hargrove. Impact of Within-State Tourist Expenditures on Local Economy, Highlights of Agricultural Research, Alabama Agricultural Exp Sta, Vol 21, No. 2.
3.04.4	THE POTENTIAL FOR DEVELOPMENT AND ECONOMIC IMPACT OF OUTDOOR RECREATION FACILITIES IN SELECTED RURAL AREAS OF LOUISIANA. Determine the potential for development of outdoor recreation facilities by individuals, communities, and the state on reservoir developments, such as Toledo-Bend reservoir, Lake D'Arbonne and Lake Claiborne and on other nonreservoir areas. Determine the potential for developing and marketing fee hunting, fishing, camping and other recreation operations by farmers and other individuals on marginal agricultural land in selected areas as an alternative source of income. Estimate the impact of the developments referred to in and upon the income, employment opportunities, tax, base, overall economic well-being and other associated measures in the community or rural areas. (LA-BO-1554)	F. J. Hudson L. J. Guedry Department of Agricultural Economics & Agribusiness Louisiana State University Baton Rouge, LA 70803	2/71-2/76	J. F. Hudson and C. Stovall. An Economic Analysis of Cotile Recreation Area, Louisiana Rural Economist, Vol 36, No. 2, May 1974. J. F. Hudson and C. Stovall. Socioeconomic Characteristics of Cotile Recreation Area Users, Louisiana Rural Economist, Vol 36, No. 3, Aug 1974. J. F. Hudson and C. Stovall. An Economic Analysis of Cotile Recreation Area, DAE Research Rpt No. 469, June 1974. C. L. Stovall. An Economic Analysis of Cotile Recreation Area, thesis, Department of Agricultural Economics and Agribusiness, May 1974.
3.04.5	A SOCIOECONOMIC ANALYSIS OF ENVIRONMENTAL IMPROVEMENTS IN RURAL LAND AND WATER RESOURCES. Evaluate and select techniques for identifying and measuring pollution control effects; measure impact of pollution control on income and employment; analyze institutional alternatives for	W. R. Kerns J. W. Nixon Department of Agricultural Economics University of Georgia Athens, GA 30601	7/72-6/76	W. Kerns and F. Holemo. Population Abatement Expenditures in Georgia Poultry Processing Plants, Georgia Agricultural Research, Vol 15, No. 3, Winter 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	administering controls; and delineate feasible administrative and legislative pollution control standards. (GA-00447)			W. Kerns and H. Jones. Cost of Required Water Pollution Abatement on Poultry Processing Plants, Southern Journal of Agricultural Economics, Vol 6, No. 1, July 1974. H. Jones and W. Kerns. Wastewater Treatment Costs in Poultry Rendering Plants in Georgia, Southern Journal of Agricultural Economics, Vol 6, No. 2, Dec 1974. W. Kerns and J. Hurlebaus. Costs of Compliance with Effluent Guidelines in Southern Livestock Operations, paper presented, Engineers and Animal Scientists, Southern Association of Agricultural Scientists, Memphis, TN, Feb 1974. W. Kerns and H. Jones. Economic Impact of Required Water Pollution Abatement on Poultry Processing Plants, paper presented, Engineers and Animal Scientists, Southern Association of Agricultural Scientists, Memphis, TN, Feb 1974.

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3.05 Major Area: ECONOMIC DEVELOPMENT

Minor Area: ALTERNATIVE USES OF NATURAL RESOURCES

3.05.1	ANALYSES OF THE STRUCTURE OF RURAL LAND VALUES AND THEIR RELATIONSHIP TO LAND USE. Determine the nature and operation of major value determinants in the rural and rural-urban fringe land markets of Texas. Analyze trends in aggregate land markets by geographical areas and for the state. (TX-06059)	I. W. Schmedemann A. B. Wooten J. D. Dodd Department of Agricultural Economics Texas A & M University College Station, TX 77843	4/74-6/78	I. W. Schmedemann, A. B. Wooten, and R. M. Ronnau. What's Happening to Rural Land Values, Texas Agricultural Exp Sta, Vol 20, No. 1, Winter 1974. I. W. Schmedemann, A. B. Wooten, and R. M. Ronnau. Rural Land: Market in Transition, Texas Agricultural Progress, Texas Agricultural Exp Sta, Vol 20, No. 3, Summer 1974. I. W. Schmedemann and R. M. Ronnau. Land as a Storehouse of Wealth - Implications for Great Plains Agriculture, Rural Development in the Great Plains: Problems and Potentials, seminar sponsored by the Resource Economics Committee, Great Plains Agricultural Council, New Mexico State University, Oct 1974. I. W. Schmedemann, A. B. Wooten, and R. M. Ronnau. Dynamics of the Rural Land Market, Texas Agricultural Progress, Texas Agricultural Exp Sta, Vol 20, No. 4, Fall 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.05.2	CONCEPTUALIZING LAND USE PLANNING AND MANAGEMENT. Identify the problems of land use and management which are motivating public officials in cities, counties, Councils of Governments, and the state government to plan for development, use and management of land and related resources. Analyze land use planning and management processes used elsewhere and new approaches which seem promising for Texas. Determine kinds and availability of socioeconomic land use data required for planning and management purposes at local, regional, and state levels. (TX-06058)	J. G. McNeely Department of Agricultural Economics Texas A & M University College Station, TX 77843	1/76-6/77	J. G. McNeely. Property Rights and Land Use Planning in Texas, TA No. 11142, Apr 1974. J. G. McNeely. The Potential for Land Use Planning in Texas, TA No. 11213, June 1974. J. G. McNeely. Potential for Land Use Planning in Texas, Texas Agricultural Progress, Fall 1974, pp 12-13. S. E. Wilson. Land Use/Resource Inventory Systems: An Information Paradion, TA No. 11220, Aug 1974.
3.05.3	MEASUREMENT OF ATTITUDES OF PEOPLE TOWARD LAND USE PLANNING. Discover what the attitudes of people are toward land use planning in a given county, or counties. Analyze the variation of attitudes, if any related to the different characteristics of the people, such as age, sex, occupation, income, education, etc. Relate the attitude patterns with the problems and experiences to the people. (AR-00808)	G. T. Hudson Department of Agricultural Economics & Rural Sociology University of Arkansas Fayetteville, AR 72701	7/74-6/77	None reported.
3.05.4	POTENTIAL FOR INCREASING NET FARM INCOME ON LOW-INCOME FARMS IN EASTERN KENTUCKY. Estimate potential gains in net farm income from existing resources on selected	E. D. Smith H. H. Hall Department of Agricultural Economics	7/74-6/77	None reported.

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	farms in eastern Kentucky. Identify non-resource impediments to increasing farm incomes on these farms. (KY-00098)	University of Kentucky Lexington, KY 40506		
3.05.5	SUPPLY AND DEMAND FOR PUBLIC FOREST RECREATION IN THE NORTH CENTRAL REGION. To develop decision models for estimating dollar values of forest recreation, consumption (rates of activity), and secondary economic consequences. To study consumer values affecting demand for forested outdoor recreation facilities. (KY-814)	R. Burdge Department of Sociology University of Kentucky Lexington, KY 40506	--	None reported.

3.06	Major Area: ECONOMIC DEVELOPMENT	Minor Area: RURAL RECREATION ENTERPRISES		
3.06.1	CHARACTERISTICS, PREFERENCES, AND ATTITUDES CONCERNING PRIVATE FEE-FISHING OPERATIONS. Determine selected demographic and other characteristics of anglers on selected fee-fishing operations in Virginia; determine and rank important factors affecting the perceived quality of a fishing experience on selected fee-fishing operations in Virginia; develop methodology for predicting man-days of use accruing to selected fee-fishing operations in Virginia. Test the above methodology as to its utility as a predictive tool. (VA-0616234)	R. I. Lackey Department of Fisheries and Wildlife VPI & State University Blacksburg, VA 24061	7/74-6/77	None reported.
3.06.2	ECONOMIC STUDY OF DEMAND FOR OUTDOOR RECREATION AT BEAVER LAKE, ARKANSAS. Determine the economic benefits accruing to society from use of publically provided recreation facilities on Beaver Lake; the maximum revenue which could	R. N. Shulstad Department of Agricultural Economics & Rural Sociology University of Arkansas Fayetteville, AR 72701	1/75-12/79	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	be generated through a user fee at existing and proposed facilities; local changes in recreational demand patterns resulting from the construction of additional facilities; develop methods and procedures for estimation of the substitution effect of recreational price increases and apply the methods and procedures to reestimation of the demand functions. (AR-00817)			
3.06.3	FAIRS AND FESTIVALS IN LOUISIANA AND THEIR SOCIAL AND CULTURAL SIGNIFICANCE. Determine the theme, history, and specific character of the various fairs and festivals celebrated in Louisiana and relate these events to the cultural (especially agricultural) development of the state. (LA-1779)	A. L. Bertrand Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803	1/76-12/77	None reported.
3.06.4	RECREATIONAL POTENTIAL OF ESTUARINE LAND. Gather information concerning the use of certain private land in the coastal areas of Louisiana for public recreational purposes. Activities include: (1) a survey of the legal impediments to greater use of private lands by the public for recreational purposes, (2) interviews with large landholding companies and individuals, (3) a survey of the location and potential recreational uses of private land in the coastal zone utilizing sampling surveys completed previously by various parish units, (4) participation in a statewide survey of public attitudes concerning the use of coastal areas. (LA-BO-1680)	A. L. Bertrand M. D. Grimes Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803	--	None reported.

3.07	Major Area: ECONOMIC DEVELOPMENT	Minor Area: TECHNOLOGY FOR SMALL FARMS		
3.07.1	AN ANALYSIS OF THE ECONOMIC FACTORS AFFECTING THE SUCCESS OF SMALL FARM OPERATORS. Identify some successful small farmers in Louisiana; determine the characteristics for success; estimate resource requirements and determine managerial practices; estimate input-output relationships and capital-labor coefficients by farm type and resource outlay; determine optimal combinations of enterprises; make recommendations to increase farm income. (LA-X-PR-0002-8-15-59)	L. Davis J. R. Jindia Department of Agricultural Economics Southern University Baton Rouge, LA 70813	5/73-5/78	None reported.
3.07.2	ECONOMIC FEASIBILITY OF ORGANIZING, FINANCING, AND MANAGING MARKETING AND SUPPLY COOPERATIVES FOR LOW-INCOME FARMERS AND RURAL RESIDENTS. Determine feasibility of organizing, financing, and managing cooperatives to accomodate income needs and rural living requirements for persons of low incomes; design model-type cooperatives which might meet the economic needs for low-income farmers and rural residents and outline the requirements for and implement the procurement of borrowed funds (private and public) to initiate such low-income cooperatives wherever feasible. (LA-BO-1552)	E. P. Roy Louisiana State University Baton Rouge, LA 70803	2/71-6/76	E. P. Roy and F. J. Bordelon. Economic Aspects of the Low Income-Limited Resource Problem in Louisiana, DAE Research Rpt No. 467, June 1974. E. P. Roy and B. A. Fallo. Economic Analysis of Selected Low-Income Farmer Cooperatives in Louisiana, DAE Research Rpt No. 434, Jan 1972.
3.07.3	A FEASIBILITY STUDY OF THE COMMERCIAL PRODUCTION OF CRAYFISH UNDER SMALL POND CONDITIONS. Determine the type and amount of food that will yield the best production. Determine the most	L. R. Roddy C. E. Davis Department of Biology Southern University Baton Rouge, LA 70813	10/74-10/79	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	efficient harvesting method in small ponds. Investigate an early and extended crayfish season in small ponds. (LA-X-PR-0002-8-15-66)			
3.07.4	PROCESSING AND MARKETING TECHNOLOGY OF COMMERCIALLY CULTURED CATFISH. Minimize foreign flavors in cultured food catfish, develop quality standards for catfish products, and determine market value of waste from catfish processing plants. (AL-00630)	R. T. Lovell E. W. McCoy D. L. Huffman Department of Fisheries and Allied Aquaculture Auburn University	2/71-6/76	R. T. Lovell and L. A. Sackey. Absorption by Channel Catfish of Earthy-Musty Flavor Compounds Synthesized by Cultures of Blue-Green Algae, Transactions, American Fishery Society, 102(4), p 774. R. T. Lovell. Environment-Related Off-Flavors in Intensively Cultured Food Fish, Proceedings, Technical Conference on Fishery Products, FAO (United Nations) Public, FII: FP/73/E-46, p 109. 151 R. T. Lovell and T. A. McCaskey. Techniques of Bacterial Analysis of Processed Channel Catfish--I. Determination of Surface Area of Dressed Fish, 70th Annual Proceedings of Association of Southern Agriculture Workers, p 146. R. T. Lovell. Absorption of Earthy-Musty Flavor by Channel Catfish from Algae, 70th Annual Proceedings of Association of Southern Agriculture Workers, p 146.

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				R. T. Lovell. Economic Uses of Catfish Processing, Workshop, Starkville, MS, May 2-3, 1973, p 53.
3.07.5	SCIENTIFIC FARM ORGANIZATION FOR RURAL DEVELOPMENT. Determine the farm enterprise, and combination of technological practices that lend themselves best for improvement of low-income rural families. (PR-00267)	A. A. Llorens Department of Agricultural Economics & Rural Sociology University of Puerto Rico Rio Piedras, PR 00928	3/71-3/76	G. Serra, S. Silva, and A. A. Llorens. Siembras de Dafetos Usando Dos Tipos de Envase, Agricultural Exp Sta UPR Publication No. 86, Feb 1974, 12 pp.
3.08	Major Area: ECONOMIC DEVELOPMENT	Minor Area: ENTERPRISES FOR SMALL AND PART-TIME FARMS		
3.08.1	ALTERNATIVE INCOME OPPORTUNITIES FOR THE LIMITED RESOURCE FARMER IN THREE NORTH CAROLINA COUNTIES. Isolate limited resource farmer in the selected counties in terms of land, labor, and capital available to him, obtain his optimum allocation of resource according to farm enterprises, and where the optimum allocation of resource does not allow the farmer to obtain a "satisfactory" standard of living, the possibility of alternative sources of income outside of agriculture will be explored. (NC-X-PR-0001-307-036)	B. G. Coley Department of Economics University of North Carolina Greensboro, NC 27412	6/72-6/77	None reported.
3.08.2	ALTERNATIVE TECHNICAL AND ECONOMIC SYSTEMS OF SWINE PRODUCTION AND MARKETING ON SMALL FARMS. Determine the most effective alternative marketing of feeder pigs, including contractual arrangements and	L. Weatherspoon M. Neufville Prairie View A & M College Prairie View, TX 77445	4/72-4/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	specialized feeding-out of the pigs. Analyze the costs of production, under different systems of production, with special emphasis upon the various on-hand farm resources on small-farms. Evaluate the technical effects in the Texas gulf coast area of the optimum level of protein for the growing stages, kinds and levels of protein upon lean-cut yield and efficiency of gain, confinement systems. Evaluate the technical and economics of waste disposal in feeder pig production under various systems of confinement. (TX-X-PR-0003-G-1972)			
3.08.3	ANALYSIS OF RESOURCES ON SMALL LOW-INCOME FARMS. Determine the current physical and human resources as to situation on small, low-income farms. Determine the augmentation and development required of currently controlled resources in order to achieve better economic and social results from their use. Determine off-farm employment capabilities and needs of the farmers of small low-income farms. Provide basic enterprise budgeting, and other information, for extension educational programs among small, low-income farmers. (TX-X-PR-0003-G-6075)	V. W. Edmondson Prairie View A & M College Prairie View, TX 77445	4/73-4/78	None reported.
3.08.4	ASPARAGUS AS A HIGH INCOME PER ACRE CASH CROP FOR LIMITED RESOURCE FARMERS. Determine the comparative value of asparagus as a high per acre cash value crop	H. Stallworth Division of Agriculture Fort Valley State College Fort Valley, GA 31030	6/72-6/77	None reported.

	for limited resource farmers and study the effect of growth inhibitors in prolonging dormancy, and determine the varieties best adapted to the area, and the best cultural practices. (GA-X-PR-0003-72PS-0)			
3.08.5	ECONOMIC FEASIBILITY OF ORGANIZING MARKETING AND SUPPLY COOPERATIVES BY THE LOW-INCOME FARMERS. Determine the economic feasibility of organizing cooperative for low-income farmers in South Carolina. (SC-X-PR-0003-010)	S. R. Londhe South Carolina State College Orangeburg, SC 29115	9/72-9/77	None reported.
3.08.6	ECONOMIC FEASIBILITY OF PREBROILER PRODUCTION BY LOW-INCOME FARM FAMILIES. Determine the market potential for prebroilers in the Texas gulf coast area. Determine the most efficient methods of marketing the birds, including producer, buyer arrangements, processing and distribution to market outlets. Analyze costs of producing live birds under various technical production methods. Evaluate comparative efficiencies of the cage and litter pen types of bird-confinement. Evaluate meat strains of birds most suitable for prebroiler production. Investigate nutritional and confinement management factors in production. (TX-X-PR-0003-G-1971)	J. J. Woods Prairie View A & M College Prairie View, TX 77445	4/72-4/77	None reported.
3.08.7	FRUIT GARDEN STUDIES. Study the feasibility of growing bush, vine, and tree fruits in small plots with culture comparable to that given by home gardeners. (LA-B0-1738)	E. N. O'Rourke, Jr. Department of Horticulture Louisiana State University Baton Rouge, LA 70803	7/75-6/80	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.08.8	FRUIT AND VEGETABLE PRODUCTION STUDIES FOR LOW-INCOME RURAL DWELLERS IN SOUTHWEST MISSISSIPPI. Determine the most suitable varieties of selected fruit and vegetable crops for southwest Mississippi, and to determine the best cultural procedures, including irrigation and fertility, for these selected fruit and vegetable crops. (MS-1224)	J. P. Overcash T. Suresh Department of Horticulture Alcorn State University Lorman, MS 39096	2/71-6/76	Fertilizer Trial on Cucumber Evaluated at Alcorn Branch Station, being prepared for MAFES Highlights.
3.08.9	A SOCIOECONOMIC STUDY OF LOW-INCOME AND PART-TIME FARMERS IN SELECTED AREAS OF TENNESSEE. Measure the attitudes of low income and part-time farm families concerning alternatives for increasing family income and to compare their attitudes with those of full-time commercial farm families, establish a profile of land, labor, and capital resources of typical low-income and part-time commercial farm families, set up alternative resource use programs to optimize income from resources of low-income and part-time farm families. (TN-00430)	B. J. Irevena Department of Agricultural Economics & Rural Sociology University of Tennessee Knoxville, TN 37916	4/75-6/78	None reported.
3.09	Major Area: ECONOMIC DEVELOPMENT	Minor Area: ECONOMIC INTERACTION IN RURAL AREAS		159
158 3.09.1	AN ANALYSIS OF THE PROBLEMS INVOLVED IN FINANCING KENTUCKY FARMS. Determine credit needs of expanding commercial farms and applicability of polyperiod programming in analyzing credit needs	F. E. Justus, Jr. Department of Agricultural Economics University of Kentucky Lexington, KY 40506	10/72-10/76	A. I. Overall and F. E. Justus, Jr. Dairy Farming--A Whole New Ball Game?, Kentucky Agri-Business Spotlight, No. 54,

	and provisions. Determine credit needs and problems of small farmers. (including part-time and subsistence farmers). Develop guidelines for efficient loan extension and use by the two groups of farmers. (KY-00094)			September 1974. F. E. Justus, Jr. Studying Financial Performance of Dairy Enterprises -- A Look at Two Measures of Performance, Kentucky Agri-Business Spotlight, No. 55, October 1974.
3.09.2	CHANGES IN INDUSTRIAL STRUCTURE IN WEST TENNESSEE AND ITS IMPACT ON DEVELOPMENT IN RURAL AREAS. Obtain information regarding spatial patterns of industrial development and analyze the impact of manufacturing on the income in the rural areas of west Tennessee, during 1960-70 decade. Describe and analyze factors influencing recent spatial patterns of industrial development, so that some general guidelines can be established by which to advise local leaders, concerning types of industries suitable for their areas. (TN-X-PR-0001-34816)	S. P. Singh Tennessee A & I State University Nashville, TN 37203	3/73-3/78	S. P. Singh. A Prelude to Rural Development in Tennessee: Changes in Economic Activity and Industrial Growth, 1960-1970, School of Agriculture and Home Economics, Tennessee State University, Bulletin No. 5, Sept 1974. G. A. Claxton and S. P. Singh. Industrial Changes and Migration To and From Tennessee Counties, 1960-1970, School of Agriculture and Home Economics, Tennessee State University, Bulletin No. 7, Feb 1975.
3.09.3	DETERMINANTS OF THE RATE OF GROWTH IN EMPLOYMENT OF THE NORTH FLORIDA AREA ECONOMY. Develop explicit methods for determining employment growth rates and interrelationships, or linkages among the principal sectors of a predominantly rural economy. Empirically test these conceptual developments in the north Florida area economy. (FL-1436)	B. R. Eddleman Department of Agricultural Economics Florida Agricultural Experiment Stations University of Florida Gainesville, FL 32601	7/68-7/71	None reported.
3.09.4	EARNINGS OF FARMERS THROUGH COOPERATIVE ACTION IN ARKANSAS. Determine if prices	J. A. Fordon D. J. Houston	6/72-6/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	received through cooperatives are higher than those received by incividual action. Determine if cooperatives give farmers a cost advantage in purchasing supplies over retail cost by individuals. Determine the role of cooperatives in bargaining. (AR-X-45-2090)	Department of Agriculture University of Arkansas Little Rock, AR 72201		
3.09.5	THE IMPACT OF AGRICULTURAL AND NONAGRICULTURAL DEVELOPMENTS UPON THE ECONOMIES OF SELECTED RURAL AREAS IN LOUISIANA. Determine, for selected geographic areas, the potential for increased agricultural and nonagricultural development, including associated supply, processing, and marketing facilities. Estimate (measure) the economic impact of new developments on rural areas and/or rural communities in terms of employment, income, business created, larger public tax bases, public services, improved level of living standards and other measures. (LA-BO-1553)	L. J. Guedry Department of Agricultural Economics and Agribusiness Louisiana State University Baton Rouge, LA 70803	2/71-2/76	L. J. Guedry and T. H. Klindt. Impact of Agricultural Production on Output for a Rural Louisiana Economy: West Carrol Parish, Louisiana Rural Economist, Department of Agricultural Economics and Agribusiness, Louisiana State University, Vol 36, No. 4, Nov 1974, pp 11-14. T. H. Klindt and K. W. Paxton. The Impact on Employment of Increasing Output of Industries in Louisiana: An Interindustry Analysis, Department of Agricultural Economics and Agribusiness, Research Rpt No. 468, June 1974, 28 pp.
162 3.09.6	INCOME INEQUALITY AND ITS RELATIONSHIP TO COMMUNITY STRUCTURES AND COMMUNITY INTERACTIONS. Determine variation and	G. C. Wheelock Department of Agricultural Education	4/73-4/78	G. C. Wheelock. Structural and Demographic Determinants of Family Income 163

	change, and their sources, in income inequality among 96 Census County Divi- of North Alabama. Develop a typology of low-income communities in the 13-county study area. Lay the foundation for subsequent systematic study of the relationship between contrasting levels of income inequality and associated socioeconomic structure. (AL-X-PR-0003-1-73)	Alabama A & M University Normal, AL 35762		and Income Inequality in North Alabama, Proceedings of the Rural Sociology Section, Southern Association of Agricultural Scientists, Feb 3-6, 1974. R. Reid and G. Wheelock. Small Fruits for the Family Garden, Alabama A & M College of Agriculture, Feb 1974.
3.09.7	PLANNING FOR ECONOMIC GROWTH AND RESOURCE MANAGEMENT. Develop and use quantitative models to evaluate impacts of alternative development and resource management programs on economic, demographic, institutional environmental, and natural resource attributes of multicounty areas. (FL-AS-01628)	E. T. Ioehman K. C. Gibbs Department of Food and Resource Economics University of Florida Gainesville, FL 32601	11/72-6/77	D. Andrews and K. Gibbs. An Analysis of the Effect of Price on Residential Water Demand: Metropolitan Miami, Florida, accepted for presentation at the annual meeting, Southern Journal of Agricultural Economics, Feb 1975.
3.09.8	PROCESSES OF RURAL ECONOMIC CHANGE IN THE NORTHEAST. Inventory and classify non-metropolitan areas for changing levels and structure of economic activity. Determine processes by which rural economic change occurs. Assess the viability of areas in terms of their resources. Indicate the probable direction of future economic changes. Evaluate the effects of institional changes and policy activities on rural economic change. (VA-0626179)	B. F. Long Department of Agricultural Economics VPI & State University Blacksburg, VA 24061	7/71-6/76	B. F. Long. The Need for Systems Approach to Rural Development Research: Discussion, Southern Journal of Agricultural Economics, July 1974.
3.09.9	SOCIOECONOMIC CHARACTERISTICS OF RURAL DEVELOPMENT AREAS IN TENNESSEE. Determine the present economic base, to appraise the overall potentials for additional public and private investment,	S. D. Mundy Department of Agricultural Economics University of Tennessee Knoxville, TN 37916	2/71-6/76	M. D. Gray. An Economic Analysis of Sex Alternative Socio-Economics Data Information Systems for Tennessee, Agricultural

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	and suggest alternative development strategies for each delineated rural development area in Tennessee. (TN-00328)			Economics and Rural Sociology Department, University of Tennessee, 1975.
3.09.10	TECHNICAL AND ECONOMIC PROBLEMS IN ALTERNATIVE SYSTEMS OF PRODUCING AND MARKETING SELECTED VEGETABLES. Determine retail market demand for vine-ripened tomatoes and fresh sweet corn in alternative fresh vegetable consumer outlets. Determine alternative methods of delivering tomatoes and sweet corn from the farm to the consumer market. Determine production systems and cultural practices that provide the desired type of tomato and sweet corn demanded by the consumer. Determine various costs of on-farm production under various resource situations, including operator management capabilities. (TX-X-PR-0003-G-1970)	Y. P. Chang M. Burns Prairie View A & M College Prairie View, TX 77445	4/72-4/77	None reported.
3.10	Major Area: ECONOMIC DEVELOPMENT	Minor Area: INCOME AND EMPLOYMENT EFFECTS OF TAXATION AND REGULATIONS		167
3.10.1	ECONOMICS OF THE PROPERTY TAX IN RURAL DEVELOPMENT. Evaluate the circle of taxation in rural development, with emphasis on the property tax. Will examine: the current structure of taxation in Georgia, the economic	F. C. White Department of Agricultural Economics University of Georgia Athens, GA 30601	7/74-6/77	C. A. Logan. Analysis of the Tax Burden for Commercial Farmers of Georgia, unpublished master's thesis, University of Georgia, Dec 1974.

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implications of the current tax structure on agriculture, agribusiness, and other segments of the economy, the impact of alternative tax structures on equity, efficiency and desired land use patterns. (GA-00485)

3.11	Major Area: ECONOMIC DEVELOPMENT		Minor Area: MISCELLANEOUS AND UNCLASSIFIED	
3.11.1	APPLICATION OF A FAMILY MODEL TO THE ANALYSIS OF SUPPLY OF MARKET WORK TIME OF FARM WAGE WORKERS. Analyze total work time supplied per unit time (days per year) by hired workers. (NC-12094)	D. M. Hoover L. A. Ihnen Department of Economics North Carolina State Raleigh, NC 27607	10/74-9/77	None reported.
3.11.2	IMPROVING THE INCOME AND EMPLOYMENT STATUS OF DISADVANTAGED RURAL PEOPLE. Development of relevant knowledge through research which may contribute to improving the income and employment status of disadvantaged people in the 10 counties of southeast Arkansas. (AR-X-PR-0006)	O. R. Holiday Department of Agriculture Cooperative State Research Service University of Arkansas at Pine Bluff Pine Bluff, AR 71601	4/73-1/77	None reported.
3.11.3	SOUTHERN REGIONAL RURAL DEVELOPMENT RESEARCH COUNCIL. Identify essential components of a comprehensive rural development research program, review rural development research programs of stations in the South, recommend research priorities, facilitate regional research, coordinate research with rural development activities of Extension and other agencies concerned with rural development, hold workshops, maintain contact with other agencies concerned with rural	F. H. Tyner Agricultural Experiment Station Mississippi State University Mississippi State, MS 39762	6/73-5/76	Research Needs in Rural Development. Report of the Southern Regional Rural Development Task Force, July 1974. F. H. Tyner. Rural Development Research Under Scrutiny, Southern Journal of Agricultural Economics, July 1974. F. H. Tyner. The Role of Research in Community

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	development, encourage additional research by allocating funds to participating stations in support of high priority rural development research. (MS-4011)			Development, Department of Agricultural Economics, MAFES, Staff Papers Series #17, July 1974. F. H. Tyner. The Southern Regional Rural Development Council: Developing Coordination for Rural Development in the Southern Region, in "Environmental Effects of Rural Development," Southern Land Economics Research Committee Publication No. 12, Aug 1974.

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4.01	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: CONSERVATION		
4.01.1	AGRICULTURAL WASTE MANAGEMENT AND ENVIRONMENTAL QUALITY, PHASE I. Study the effects of variable application rates, time, and frequency of application of animal waste, and treatment system effluents (lagoon) on soil-crop systems, in order to determine optimum and maximum loading rate consistent with plant growth, without adversely affecting the quality of surface and groundwater. Evaluate the extent of the recycling of animal waste and treatment system effluents through the soil-plant system. Characterize selected soils in regard to their potential as animal waste disposal systems. (NC-X-PR-0006-309-12)	I. Ruffin Department of Plant Science North Carolina A & T University Greensboro, NC 27411	5/73-5/78	None reported.
4.01.2	DREDGE AND FILL EFFECTS ON MARSH SOILS AND MARINE ORGANISMS. Study the effects of dredge and fill operations on the soils and marine organisms of the marsh, investigate the populations of economically important marine species in relation to marsh soils, study the correlation between certain essential elements in the marine organisms and the soils, a study of the presence of pollutants in the marsh and methods for their abatement, and investigations of the marsh productivity and methods for increasing it. (FL-X-PR-0002-01588)	C. L. Coultas C. B. Subrahmanyam Department of Earth and Plant Science Florida A & M University Tallahassee, FL 32307	1/71-1/77	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
4.01.3	EFFECTS OF DOMESTIC, AGRICULTURAL, INDUSTRIAL, AND SOIL POLLUTION ON SELECTED POND ECOSYSTEMS PHASE. Make quantitative and qualitative laboratory and field studies of pollution from various sources in selected pond ecosystems, and determine the effects of this pollution on the plant and animal life of the ponds, as reflected in changes that occur over a 5-year period. (NC-X-PR-0006-309-12)	E. Marrow Department of Biology North Carolina A & T University Greensboro, NC 27411	5/73-5/78	None reported.
4.01.4	HEAVY-METAL POLLUTION OF SOILS: EFFECTS ON AGRICULTURAL PRODUCE OF AREAS ADJACENT TO URBAN CENTERS. Determine pH and the concentration of As, Pb, Cd, Zn, and Hg in soil, farm ponds, and domestic water supplies in rural areas in proximity to large urban centers during periods of the year. Determine the concentration of As, Cd, Zn, and Hg in crops taken from soil under intensive agriculture near urban centers. Develop methods by which As, Cd, Zn, and Hz can be made available to the plant or immobilized in the soil. (TX-X-PR-0001)	E. Brams Prairie View A & M College Prairie View, TX 77445	6/73-6/78	None reported.
4.01.5	THE INFLUENCE OF HERBICIDES ON SOIL AND WATER QUALITY. Determine the residual effects of atrazine, trifluralin, and dalapon when used at recommended and excessive rates. Determine if the rate of degradation of these herbicides differ in two soils of different types and drainage patterns. Determine migration of specific herbicides in different soil types. (TN-X-PR-0002-34676)	F. E. Westbrook Department of Plant Science Tennessee A & I State University Nashville, TN 37203	8/72-8/77	None reported.

4.02	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: RECREATION		
4.02.1	ECONOMIC AND ENVIRONMENTAL IMPACTS RECREATION DEVELOPMENT AND MANAGEMENT STRATEGIES. Estimate economic effects of alternative water-based recreational development and management strategies. Analyze factors causing environmental impacts on both recreational users and on the physical sites. Develop a simulation model which will measure the environmental externalities and economic impacts associated with the water-based recreational uses. Determine the level of physical development, and the level management that will optimize the trade-offs between environmental externalities and economic values. (OK-01564)	D. D. Badger Department of Agricultural Economics Oklahoma State University Stillwater, OK 74074	10/73-12/75	D. D. Badger. Local and Regional Economic Effects of Recreation at Lake Tenkiller, Oklahoma Agricultural Exp Sta Professional Paper 167.
4.02.2	THE ENVIRONMENTAL IMPACT OF SEASONAL RESORTS ON RURAL AREAS IN WESTERN NORTH CAROLINA. Make an assessment of the present status of the seasonal resort industry in the 14 counties in western North Carolina. Construct a tentative "Quality of Life" index reflecting the general well-being of the study area. (NC-X-PR-0007-307-066)	D. Y. Chen Department of Economics North Carolina A & T University Greensboro, NC 27412	5/75-5/80	None reported.
4.02.3	METHODS FOR SELECTING, PLANNING, MANAGING AND EVALUATING RECREATIONAL SITES, PHASE 1. Determine roles of plant materials in the selection, development, and management of recreational sites, evaluate the adequacy of design concepts and management practices to meet preferences of selected	C. L. Fountain Department of Plant Science North Carolina A & T University Greensboro, NC 27412	6/73-6/78	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	groups, particularly the elderly, determine the impact of users on vegetative cover of recreational sites and develop reliable and easily applied methodology for post-design evaluation of recreational developments. (NC-X-PR-0007-307-643)			
4.03	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: FORESTS AND WILDLIFE		
4.03.1	ENVIRONMENTAL EFFECTS ON PRODUCTIVITY OF CRAYFISH IN POND HABITATS, PHASE I. Determine types of vegetation found in natural disturbed and pond habitats. Determine influence of associated animals on productivity. Determine water quality in these habitats. (LA-X-PR-0002-8-15-0)	L. R. Roddy C. E. Davis Department of Biology Southern University Baton Rouge, LA 70813	4/72-4/77	None reported.
4.03.2	ENVIRONMENTAL EFFECTS ON PRODUCTIVITY OF CRAYFISH IN POND HABITATS, PHASE II. Determine difference in egg production in natural, disturbed, and pond habitats. Determine productivity of crayfish by trapping. Determine by burrow counts the productivity of crayfish in natural, disturbed, and pond habitats. (LA-X-PR-0002-8-15-5)	L. R. Roddy C. E. Davis Department of Biology Southern University Baton Rouge, LA 70813	11/72-11/77	None reported.

4.04	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: LAND USE AND ZONING		
4.04.1	FACTORS AFFECTING RURAL PROPERTY VALUES AND LAND USE PATTERNS IN OKLAHOMA. Estimate values for the relevant variables (economic, locational, and use characteristics) affecting rural real estate values in Oklahoma; evaluate the impact of public expenditure and tax policies on real estate values and land use patterns in Oklahoma; develop an economic model for the state of Oklahoma capable of generating estimates of future land use requirements; sample rural people to ascertain their attitudes toward alternative land use regulation strategies; analyze the differential effects of alternative land use regulation strategies on land use patterns, the distribution of net private benefits, the rate of land use conversion, the distribution of local tax burdens, and the fiscal position of the local community. (OK-01571)	H. D. Drummond Department of Agricultural Economics Oklahoma State University Stillwater, OK 74074	7/74-6/79	Land Use Planning: The Jackson Bill, Oklahoma Current Farm Economics, Vol 46, No. 4, Dec 1973, pp 10-18. The Land Use Policy and Planning Assistance Act: Senate Bill 268, Oklahoma State University, Department of Agricultural Economics Paper AE 7401, Feb 1974.
4.04.2	ECONOMICS OF COASTAL ZONE MANAGEMENT. Initiate development of a comprehensive resource management model to evaluate trade-off between alternative resource allocation schemes, identify types of information and data required to develop the model, provide answers relevant to decision making, and develop a resource management model for Pamlico Sound.	L. E. Danielson G. A. Mathia J. B. Bullock Department of Economics North Carolina State University Raleigh, NC 27607	7/74-6/77	J. E. Easley and B. Sossaman. North Carolina Fisheries Data, North Carolina Agricultural Extension Service, Miscellaneous Publication No. 128, Nov 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (ACTIVE)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
4.05	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: BEAUTIFICATION		
4.05.1	DETERMINATION OF ESTHETIC ORNAMENTATIONS FOR HOME GROUNDS OF LOW AND MODERATE INCOME FAMILIES. Study hardiness of ornamental plants which have landscape possibilities and study ways of implementing low-cost plant material indigenous to middle Tennessee into esthetic home grounds composition. (TN-X-PR-0003-34586)	N. McAlpin Department of Home Economics Tennessee A & I State University Nashville, TN 37203	4/72-4/77	None reported.
4.05.2	IMPROVEMENT OF TECHNIQUES FOR THE PRODUCTION OF ORNAMENTAL FOLIAGE PLANTS. Improve present commercial production practices and establish quality standards for the different types of ornamental foliage plants for marketing purposes. (PR-00248)	C. Rivera-Lopez S. J. Rodriguez Department of Plant Breeding University of Puerto Rico Mayaguez Rio Piedras, PR 00928	9/70-9/76	None reported.
4.06	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: MISCELLANEOUS AND UNCLASSIFIED		
	No research resumes available.			

TERMINATED PROJECTS

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
1.01	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: HEALTH		
1.01.1	ALTERNATIVE MEDICAL SERVICE DELIVERY SYSTEMS FOR RURAL AREAS IN MISSISSIPPI. Determine number and location of specified medical services in rural areas of Mississippi; determine requirements for and use of specified medical services by low-income rural residents; specify and evaluate economic efficiency of alternative medical service delivery systems. (MS-4008)	F. H. Tyner Department of Agricultural Economics Mississippi State University Mississippi State, MS 39762	4/73-12/75	None reported.
1.01.2	FACTORS AFFECTING THE USE OF MEDICAL SERVICES IN RURAL AREAS OF ARKANSAS. Determine access to medical and health services as indicated by need and use of services; measure family financial capabilities, attitudes and beliefs and planning concerning medical services; and to determine kinds and adequacy of community services. (AR-00747)	B. L. Green H. J. Meenen Department of Agricultural Economics & Rural Sociology University of Arkansas Fayetteville, AR 72701	2/71-6/73	J. F. McCoy, B. L. Green, and M. Grinstead. Sixty-Nine Percent of Arkansans Indicate Willingness to Use Services of Physician Extenders, Arkansas Health Statistics Center, Tech Rpt No. 4, 4 pp, May 1974.
1.01.3	OPTIMIZING THE SOUTH CAROLINA COMMUNITY HOSPITAL SYSTEM FOR IMPROVING ACCESS BY RURAL RESIDENTS. Determine a least-cost location pattern for the South Carolina community hospital system. The focal issue is the relationship between costs and spatial configuration of the system. Provide a framework and functional techniques for planning purposes; develop an optimal location pattern with respect to	B. L. Dillman Department of Agricultural Economics & Rural Sociology Clemson University Clemson, SC 29631	9/72-8/74	None reported.

numbers, sizes, and locations to improve access for rural residents; and evaluate the usefulness of the location model in conjunction with an access opportunity model on the basis of improved welfare of rural residents. (SC-00046)

1.02 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: EDUCATION AND TRAINING

1.02.1	DECISION MODELS FOR SCHOOL FACILITIES CONSTRUCTION IN NONMETROPOLITAN AREAS OF NORTH CAROLINA. Develop and demonstrate the usefulness of decision models to assist administrators and public advisory bodies in making choices concerning optimum size and location of new school facilities and choices concerning the renovation of existing structures. (NC-13326)	R. A. King Department of Economics North Carolina State University Raleigh, NC 27607	2/71-1/74	B. B. Balfour II. Spatial Planning and Analysis of the Location of Public School Facilities, unpublished Ph.D. dissertation, Dept of Economics, NC State University, 1974.
1.02.2	A STUDY OF MANPOWER TRAINING REQUIREMENTS. Initiate research on future manpower and training needs by occupations. A search of the relevant literature will be made and a request for information will be made to CRIS. Pilot experiments will be conducted and the data used to design definitive experiments. This information will be incorporated into a concise project outline and a revised research resume and classification of research. (TX-01961-RI)	C. F. Fritsch E. S. Webb Department of Agricultural Economics Texas A & M University College Station, TX 77843	7/72-6/73	C. F. Fritsch, L. R. Lorenz, E. S. Webb, and J. W. Holcomb. Educational Needs for Employment in Texas Agribusiness, Exp Sta PR 3192, May 1973. C. F. Fritsch, D. L. Dance, and C. L. Parkinson. Some Things You Always Wanted to Know About Magnetic Tape Handling Procedures, DTR 72-7. C. F. Fritsch, L. R. Lorenz, and J. W. Holcomb. Educational Planning Data for Agricultural and Related Occupations in Texas, Exp Sta PR 3245, Oct 1973.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				C. F. Fritsch and J. T. Harrington. Users Guide, Edit Program, working manuscript, June 1973.
1.03	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: WATER SYSTEMS	
1.03.1	COSTS OF ALTERNATIVE WATER AND SEWERAGE SYSTEMS IN RURAL AREAS OF MISSISSIPPI. Summarize the sources of Federal loans and grants and the required procedures for obtaining Federal assistance in developing water and sewer systems for communities of less than 5,500 population. Enumerate by geographical location and present information on number of people served, size of system, means of financing, current financial situation and other characteristics of rural water and sewer systems in Mississippi. Document the total and per customer investment in selected existing water and sewerage systems of various capacities. Estimate the annual cost per customer of rural water systems of alternative sizes serving areas of different population densities and compare these with individually owned wells. (MS-4303)	J. E. Waldrop Department of Agricultural Economics Mississippi State University Mississippi State, MS 39762	9/71-8/74	None reported.
1.03.2	DETERMINATION OF OPTIMUM RESERVOIR CAPACITY FOR RURAL WATER SUPPLIES. Develop procedures whereby the optimum	C. T. Haan Department of Agricultural Engineering	4/71-6/75	J. E. Jarboe and C. T. Haan. Calibration of a Four-Parameter Water Yield

	size of reservoirs for rural water supplies can be determined. (KY-00123)	University of Kentucky Lexington, KY 40506		Model for Small, Ungaged Watersheds, Water Resources Research 10(2), pp 256-262, 1974. C. T. Haan. Overview of Rainfall-Runoff Process in Urban Areas, Proceedings, National Symposium on Urban Rainfall and Runoff and Sediment Control, College of Engineering, University of Kentucky, 1974.
1.03.3	ECONOMIC STUDY OF ALTERNATIVE SYSTEMS FOR DISTRIBUTING WATER SUPPLIES IN A DECENTRALIZED URBAN-INDUSTRIAL AREA. To develop equation for estimating water use growth rates for large public and industrial water-using organizations; develop models and procedures for water use planning; develop minimum cost plans for distributing water from a major reservoir to various parts of the upper Santee River Basin. (SC-932)	J. M. Stoop C. L. Liner Department of Agricultural Economics and Rural Sociology Clemson University Clemson, SC 29631	1/70-12/72	Economic Analysis of Water Supply Needs and Alternatives in a Multi-County Industrial Area, Water Resources Research Institute, Clemson University, Apr 1974.
1.03.4	PILOT PLANT STUDIES OF ELECTRICAL WATER PURIFICATION FOR SMALL INDIVIDUAL SYSTEMS. Development of an optimum pilot-plant water treatment system and incorporation of the system into a mobile laboratory. Critical evaluation of the pilot plant on various difficult water treatment problems in Texas. (TX-01874)	E. A. Hiler R. C. Dillon Department of Agricultural Engineering Texas A & M University College Station, TX 77843	3/71-1/75	None reported.
1.03.5	PRICING OF WATER IN LOUISIANA. Examine pricing theories and practices for flow resources with fluctuating supplies and demands; review price structures and pricing policies of municipally owned and privately owned water companies in	F. L. Corty Department of Agricultural Economics & Agribusiness Louisiana State University Baton Rouge, LA 70803	10/72-6/75	R. Ramgolam. The Pricing of Water in Louisiana, submitted to the Graduate School, Louisiana State University, July 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	humid, semihumid and arid regions of the US; examine and evaluate price structure and pricing policies for major water uses in Louisiana; and explore new theories and policies in water pricing aimed at more efficient allocation of limited fresh water supplies. (LA-BO-1614)			
1.04	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: WASTE DISPOSAL		
1.04.1	ALTERNATIVES AND COSTS OF HANDLING SOLID WASTE MATERIALS IN URBAN FRINGE AND RURAL COMMUNITIES. Determine types of solid waste disposal systems used by county governments and small communities in Georgia and costs of systems. Obtain laws and regulations with regard to solid waste disposal systems and their effectiveness. Determine probable cost of alternate solid waste disposal systems and methods of allocating costs to users in urban fringe and rural areas. (GA-01121)	D. H. Carley Department of Agricultural Economics Georgia Agricultural Experiment Station Experiment, GA 30212	4/71-6/74	D. H. Carley. Planning for the Management of Solid Waste Materials in Rural Areas, University of Georgia College of Agr, Exp Sta Research Bulletin 158, July 1974. D. H. Carley. Recycling of Solid Wastes - A Classic Problem in Supply and Demand, Southern Journal of Agr Economics 6(a), 1974. D. H. Carley. Handling Solid Waste Materials in Urban-Fringe and Rural Communities in Georgia, University of Georgia College of Agr, Exp Sta Research Bulletin 149, Dec 1973.
1.04.2	ECONOMIC CONSEQUENCES OF ECOLOGICAL DECISIONS: A CASE STUDY OF SALTVILLE, VIRGINIA. Analyze a water pollution	B. F. Long Department of Agricultural Economics	2/71-12/74	R. Carriker and B. F. Long. Economic Implications of Pollution Control in a

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	control plan in a small community and determine the economic consequence of the program adopted. Determine the magnitude of water pollution damages on current and future uses. Analyze probable consequences of pollution abatement programs on damaged parties and uses, local industry, local government, and local residents. Analyze alternative approaches for meshing objectives of water quality improvement and economic and social stability of local areas. (VA-0616154)	Virginia Polytechnic Institute Blacksburg, VA 24061		Small Community, Virginia Agricultural Economics, June 1974.

1.05	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: RECREATION	
1.05.1	EVALUATION OF OUTDOOR RECREATION SITES ADJACENT TO LAKE NAGODOCHES. Develop a systematic approach to the selection and evaluation of the site factors presently recognized as essential to the location and development of outdoor recreation facilities. (TX-Y-74-011)	K. G. Watterston B. Floyd School of Forestry Stephen F. Austin State University Nagodoches, TX 75961	1/73-5/74	None reported.
1.05.2	IMPLEMENTATION OF CONTINUANCE PLANNING PROGRAM IN OUTDOOR RECREATION, III. Investory, compile, and prepare a written summary of planned outdoor recreation land acquisition and facility development programs by state planning districts for the period July 1, 1973 to June 30, 1978 by governmental units; complete study on out-of-state visitors and resident out-of-district visits for recreation participation by state planning districts; develop materials and complete study on fishermen and hunters and fishing and hunting habitat; conduct special	J. H. Blackstone Department of Agricultural Economics & Rural Sociology Auburn University Auburn, AL 36830	10/72-9/74	Alabama Statewide Comprehensive Outdoor Recreation Plans. Developing a Trail System for Alabama, Vol 12; Developing a Natural and Scenic Areas Program in Alabama, Vol 18; Fishing in Alabama, Vol 19; Hunting in Alabama, Vol 20; Recreational Tourism and Travel in Alabama, Vol 21.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	studies needed in the state's continuance planning program related to water-oriented and land-based outdoor recreation; and develop plans and format, and begin field work for the 1975 statewide comprehensive outdoor recreation plan. (AL-01-0052)			
1.05.3	MINIBIKE AREA DESIGN: IMPACTS ON THE RECREATION EXPERIENCE OF PARTICIPANTS AND NONPARTICIPANTS. Investigate socioeconomic characteristics of minibike riders, relationships between rider's socioeconomic characteristics and their preferences retrail characteristics, effects of varying trail characteristics on rider's satisfaction, differential impacts of minibike areas on both riders and nonriders in campgrounds adjacent to minibike areas, self-perception of minibike riders as compared with nonriding camper's perception of them, and psychological effects of minibike riding on riders. (TX-01988)	R. L. Bury E. R. Fillmore Department of Recreation & Parks Texas A & M University College Station, TX 77843	8/72-4/75	R. L. Bury and E. R. Fillmore. Design of Motorcycle Areas Near Campgrounds: Effects on Riders and Nonriders, Tech Rpt No. 6, 61 pp. R. L. Bury and E. R. Fillmore. Motorcycle Area Design and Location: Impacts on the Recreational Experiences of Riders and Nonriders, Proceedings, Southern Association of Agricultural Scientists, Memphis, TN, Feb 4, 1974. Anonymous. University Researchers Eye TVA Cycle Areas, American Motorcycle Association News, Vol 28, No. 8, pp 10-11, Aug 1974. E. R. Fillmore. Minibike Area Design: Impacts on the Recreational Experience of Participants and Nonparticipants, Doctoral dissertation, Texas A & M University.

1.06	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: LAW ENFORCEMENT	
	No research resumes available.			
1.07	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: FIRE PROTECTION	
1.07.1	INTENSIVE STUDY OF AN INCENDIARY FIRE PROBLEM IN LOUISIANA. During the time of this reporting period a comprehensive research plan for the project was developed. In addition preliminaty participant-observation and depth interview field work was carried out. The data collected are presently being processed and analyzed. Findings are being written up and will be evaluated preparatory to undertaking the final data gathering phase of the study. It is contemplated that the field work, data processing, and data analyses will be completed in the next few months. After this a comprehensive report on the findings will be prepared. (LA-BO-1675)	G. A. L. Jenkins Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803	1/74-12/74	None reported.
1.07.2	FIRE PREVENTION AND PROTECTION SERVICES FOR RURAL AREAS OF TENNESSEE. Determine present and potential fire prevention and protection services for selected rural areas of Tennessee. Construct a model fire service for rural counties of Tennessee and determine the associated costs. (TN-0037)	M. B. Badenhop Department of Agricultural Economics University of Tennessee Knoxville, TN 37916	2/73-6/75	M. B. Badenhop and T. M. Jones. Fire Protection Services in Rural Areas and Fire Insurance Coverage of Rural Properties in Tennessee, Tennessee Farm and Home Science, Progress Report No. 92, Oct, Nov, and Dec 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
1.08	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: TRANSPORTATION AND COMMUNICATION	
	No research resumes available.			
1.09	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: GENERAL COMMUNITY SERVICES	
1.09.1	APPRAISAL OF PUBLIC EXPENDITURES AND SOURCES OF PUBLIC REVENUES WITH EMPHASIS ON LAND RESOURCES. Classify land uses, estimate land values and evaluate the land tax potential for supporting local service needs; economically evaluate existing and potential land resources as sources of revenue to finance public services; identify public services and related expenditures, per capita, in rural areas; and classify major public service needs, determine incidence of benefits, whether national, state, or local and relate incidence of benefits to incidence of costs. (LA-BO-1612)	F. L. Corty Department of Agricultural Economics & Agribusiness Louisiana State University Baton Rouge, LA 70803	9/72-6/75	K. J. Coulon, Jr. The Property Tax as a Source of Revenue to Finance Local Public Services in Agricultural Parishes of Louisiana, master's thesis the graduate school, Louisiana State University, Dec 1974.
1.09.2	DELINEATION OF SOCIOCULTURAL AREAS OF ECOLOGICAL REGIONS. Delineate the socio-cultural areas of subregions of Arkansas. Identify the ecological and socioeconomic variables that are presumed to be related to community decisions and/or adjustments to change. (AR-00674)	C. T. Hudson Department of Agricultural Economics & Rural Sociology University of Arkansas Fayetteville, AR 72701	8/66-6/71	None reported.

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1.09.3	AN ECONOMIC ANALYSIS OF EDUCATION AND OTHER INSTITUTIONAL SERVICES FOR RURAL AREAS. Determine the distribution of schooling costs and benefits, analyze ways of reducing costs of schooling in rural areas, estimate the economies of city size. (OK-01457)	L. Tweeten Department of Agricultural Economics Oklahoma State University Stillwater, OK 74074	7/70-6/75	Emerging Issues for Sparsely Populated Areas and Regions Under a National Growth Policy, American Journal of Agricultural Economics, Vol 55, No. 5, Dec 1973, p 840 (J-2708). Equity and Efficiency in Rural Development Programs, Journal of Soil and Water Conservation, Vol 29, No. 1, Jan-Feb 1974, pp 8-13. Common Schooling in Oklahoma: An Estimate of Distributive Impact, Oklahoma Business Bulletin, Vol 42, Apr 1974, pp 10-14 (J-2546). The Need for a Systems Approach to Rural Development Research, Southern Journal of Agricultural Economics, 6:1, July 1974, pp 43-52 (P-131). Alternative Criteria for Guiding the Selection of Economically Depressed Areas for Special Funding, The Annals of Regional Science, VIII:3, Oct 1974, pp 111-122 (J-2470). The Economics of Elementary and Secondary Schooling in Oklahoma, Bulletin B-714, June 1974, Agricultural Exp Sta, Oklahoma State University.
1.09.4	AN ECONOMIC ANALYSIS OF THE FINANCING OF LOCAL GOVERNMENTS IN NORTH CAROLINA. Identify and estimate the determining	F. A. Mangum E. C. Pasour, Jr. Department of Economics	1/72-12/74	E. C. Pasour, Jr. Real Property Taxes and Farm Real Estate Values:

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	factors in present methods of financing local governments in North Carolina. Analyze the effects of selected alternative proposals concerning the financing of local governments in North Carolina. (NC-13357)	North Carolina State University Raleigh, NC 27607		Incidence and Implications, American Journal of Agricultural Economics, 55(4), 1973, pp 549-556. E. C. Pasour, Jr., Leon E. Danielson, and Hugh L. Liner. Market and Tax Values of Farm Real Estate in North Carolina, Economic Research Rpt No. 28, North Carolina State University, July 1974. David N. Hyman and E. C. Pasour, Jr. Real Property Taxes, Local Public Services, and Residential Property Values: Reply, The Southern Economic Journal, 41(2), 1974, pp 329-331.
1.09.5	AN ECONOMIC ANALYSIS OF PROVIDING COMMUNITY SERVICES IN RURAL AREAS OF LOUISIANA. Identify and describe the existence of selected community services in selected rural areas of Louisiana. Determine generalized least cost alternatives for providing selected community services in rural areas. Identify and describe alternative methods of financing community services.(LA-BO-1617)	R. B. Johnson Department of Agricultural Economics & Agribusiness Louisiana State University Baton Rouge, LA 70803	11/72-11/75	R. B. Johnson and T. H. Klindt. The Need for Public Services in Rural Areas, Louisiana Rural Economist, Vol 36, No. 1, Dept of Agricultural Economics and Agribusiness, Louisiana State University, Feb 1974. T. H. Klindt, R. B. Johnson, and W. L. Brugmann. Waste Disposal System Costs in Selected Rural Communities of Louisiana, Louisiana Rural Economist, Vol 36, No. 2,

Dept of Agricultural Economics and Agribusiness, Louisiana State University, May 1974.
R. B. Johnson, T. H. Klindt, and W. P. Hobgood, Jr. Central Water System Costs in Selected Rural Communities of Louisiana, Louisiana Rural Economist, Vol 36, No. 3, Dept of Agricultural Economics and Agribusiness, Louisiana State University, Aug 1974.
W. P. Hobgood, Jr. A Cost Analysis of Rural Water Systems in Louisiana, unpublished master's thesis Dept of Agricultural Economics and Agribusiness, Louisiana State University, May 1974.

1.09.6 EMPLOYING INDIGENOUS PARAPROFESSIONALS TO STIMULATE TOTAL RURAL DEVELOPMENT. Assess effectiveness of indigenous paraprofessional extension assistants in rural community development work in terms of type worker most effective, training needs, number of communities served, and amount and type of supervision necessary. Determine overall impact of program in relation to job and income opportunities, community services and facilities, quality of housing, leadership development, and quality of life. Assess degree of system linkages of other agencies with communities. (KY-00122)

P. F. Korsching
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2/74-6/75

None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
1.09.7	INSTITUTIONAL STRUCTURES FOR IMPROVING RURAL COMMUNITY SERVICES. Identify configurations of institutional structures which affect provision and delivery of community services. Define indices of adequacy of community services. Determine the existence and adequacy of community services provided in selected rural areas. Determine the relationship between the configuration of institutional structures and the existence and adequacy of community services. Identify policies, alternative patterns of organization and conditions for effective planning, and coordination for the delivery of community services. (TX-03148)	W. H. Oberle Department of Rural Sociology Texas A & M University College Station, TX 77843	7/71-6/74	W. H. Oberle, K. R. Stowers, and J. P. Darby. A Definition of Development, Journal of the Community Development Society 5 (Spring).
1.09.8	RELATIONSHIP OF LOCAL PUBLIC FINANCING TO NEEDED PUBLIC SERVICES. Develop for taxing purposes a theoretical model for rural land appraisal; establish measures of productivity for the model; relate local public service needs to the tax potential; analyze relationship of functional socioeconomic areas to legal-economic limitations on the tax base. (AR-00745)	J. M. Redfern Department of Agricultural Economics & Rural Sociology University of Arkansas Fayetteville, AR 72701	2/71-6/74	C. Williams and J. M. Redfern. The Financial Feasibility of the Regional Approach to Public Water Supply: A Case Study of Northwest Arkansas, Bulletin 788, Arkansas Agriculture Exp Sta, University of Arkansas, June 1974.
1.10	Major Area: COMMUNITY SERVICES AND FACILITIES	Minor Area: PLANNING		210
209 1.10.1	ECONOMIC AND SOCIOLOGICAL ASPECTS OF COMPREHENSIVE LAND-USE PLANNING IN SOUTH CAROLINA. Develop a comprehensive	J. C. Hite B. L. Dillman E. L. McLean	7/71-6/75	User's Manual for the S.C. Land Use Information Systems, S. C. Land Resources

	computerized land-use and spatial demographic information system for South Carolina, and utilize that system to analyze alternatives for spatial distribution of public investments. (SC-00987)	Department of Agricultural Economics & Rural Sociology Clemson University Clemson, SC 29631		Conservation Commission in cooperation with Clemson University.

1.11	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: HOUSING, EQUIPMENT AND FURNISHINGS	
1.11.1	DEVELOPMENT OF IMPROVED HOUSING FOR RURAL NORTH CAROLINA FAMILIES. Improve the quantity and quality of housing available to rural North Carolina residents through the development of new single and multi-family housing designs, new construction methods and production systems; the formation of new self-help organizations; and the development of improved credit systems that will provide adequate financing for establishing construction facilities. (NC-13327)	R. A. King Department of Economics North Carolina State University Raleigh, NC 27607	2/71-6/74	R. A. King, J. W. Lackey, and P. R. Lobue. A Profile of Rural Housing in North Carolina, Economic Research Rpt No. 29, NC State University, July 1974.
1.11.2	EVALUATION AND IMPROVEMENT OF LOW-COST RURAL HOUSING IN TENNESSEE. Determine present status of rural housing in Tennessee; develop plans, procedures and methods of improving rural housing for low-income families. (TN-00333)	D. O. Baxter Department of Agricultural Engineering University of Tennessee Knoxville, TN 37916	3/71-6/75	D. O. Baxter and B. R. McManus. The Structural Condition of Rural Housing in Tennessee, Farm and Home Science, Progress Rpt 93, University of Tennessee, Jan, Feb, and Mar 1975.
1.11.3	PHYSICAL, SOCIAL AND ECONOMIC ASPECTS OF FUNCTIONAL HOUSING FOR LOW-INCOME FAMILIES. Develop and Evaluate concepts for low-income housing. Construct and evaluate prototypes of houses and components. Develop a retrieval system for housing information. (SC-00872)	E. B. Rogers, Jr. Department of Agricultural Engineering Clemson University Clemson, SC 29631	7/68-6/73	E. B. Rogers. A Model House for Low Income Families, Series No. 12; E. B. Rogers and H. W. Busching. Residential Heating, Series No. 13; E. B. Rogers and H. W.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				Busching. Residential Cooling, Series No. 14; G. B. Jennings. Environmental Security in Residential Areas, unpublished thesis, College of Architecture, Clemson University.
1.11.4	PHYSICAL, SOCIAL AND ECONOMIC ASPECTS OF FUNCTIONAL HOUSING FOR LOW-INCOME FAMILIES. Develop and evaluate concepts for low-income housing. Construct and evaluate prototypes of houses and components. Develop a retrieval system for housing information. (TX-02661)	A. C. Stubbs Consumer Research Center Texas A & M University College Station, TX 77843	7/68-9/74	A. Stubbs and F. Drew. A Comparison of Present and Desired Housing of Three Ethnic Groups, Proceedings of 6th Annual Meeting, Oct 17-20, 1971, American Association of Housing Educators, pp 26-31. F. Drew and A. Stubbs. Attitudes Toward Community Services, Texas Agricultural Progress, Vol 18, pp 13-15. A. Stubbs. Floor Layouts for Small Houses, TAES Bulletin MP-1053. A. Stubbs. Housing of Low Income Families, TAES Bulletin MP-1076.
1.11.5	PHYSICAL, SOCIAL AND ECONOMIC ASPECTS OF FUNCTIONAL HOUSING FOR LOW-INCOME FAMILIES. To develop and evaluate concepts for low-income housing. To construct and evaluate prototypes of houses and components. To develop a retrieval system for housing information. (VA-626116)	James E. Montgomery College of Home Economics Virginia Polytechnic Institute Blacksburg, VA 24061	7/68-6/72	None reported.

1.11.6	RURAL DEVELOPMENT RESEARCH - TUSKEGEE INSTITUTE -- PHASE I. Determine family housing requirements and needs on the basis of selected characteristics. Inventory and appraisal of current and potential land uses and factors affecting land uses in low-income counties of Alabama. Evaluate dietary intake, food preparation and acceptability of the food surplus commodity programs in selected low-income counties of Alabama. Develop techniques, procedures and educational processes for effectively communicating information to low-income people as related to housing, human nutrition, and proper land use. (AL-116-15-08)	R. A. Chung B. Tolbert Department of Agricultural Sciences Tuskegee Institute Tuskegee, AL 36088	5/71-6/74	None reported.
1.11.7	RURAL HOUSING IN SELECTED AREAS OF ARKANSAS: SITUATION, NEEDS AND POTENTIAL AND THE ROLE OF FINANCE. The general objective of the proposed study is to evaluate current housing in terms of needs and the opportunities and potential programs for improvement. More specific objectives are: identify the socioeconomic factors associated with the quality and quantity of housing; determine the rural housing needs in selected areas; estimate the gap between current availability of housing and future needs and the cost of closing the gap; ascertain the attitude of poorly housed families toward home improvements and the steps that the occupants would be willing to take in order to improve housing such as incurring debt; evaluate alternative methods of financing. (AR-00678)	H. J. Meenen H. Spurlock Department of Agricultural Economics & Rural University of Arkansas Fayetteville, AR 72701	4/67-12/74	H. H. Spurlock. Mobile Home Situation in Washington County, Arkansas, 1972, Bulletin No. 790, June 1972.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
1.12	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: LEGAL INSTITUTIONS AND LEGAL SERVICES	
1.12.1	THE REAL PROPERTY TAX IN COMMUNITY DEVELOPMENT. Appraise the current status of the real property tax in state and local fiscal policy. Analyze the real property tax in relation to the adequacy of tax revenue to finance minimum levels of public services, and the equitableness of the tax. Determine degree of conflict between real property taxation and land settlement policy and explore feasibility of using the tax power to achieve desired land use goals. (VA-0616152)	R. B. Jensen Department of Agricultural Economics Virginia Polytechnic Institute Blacksburg, VA 24061	1/71-1/74	J. A. Lewis. An Analysis of Revenues and Expenditures for Selected Localities in Virginia for the Year 1980 with Emphasis on Real Property Taxation and Public, Primary, and Secondary Education, Ph.D. dissertation, June 1974, 168 pp.
1.13	Major Area: COMMUNITY SERVICES AND FACILITIES		Minor Area: FINANCIAL SERVICES	
1.13.1	AN ECONOMIC EVALUATION OF CREDIT AND FINANCIAL RESOURCE PROBLEMS OF LOW-INCOME FARMERS AND RURAL RESIDENTS. Determine for low-income farmers and low-income rural residents: characteristics and delineate attributes associated specifically with financial and credit problems extent of knowledge regarding modern farming practices and financial management principles and mobility problems; present financial position; sources of credit; amounts borrowed from each source; principle uses of credit; interest paid; level of savings; and allocation of personal disposable farm and nonfarm income; relative	R. B. Johnson Department of Agricultural Economics and Agribusiness Louisiana State University Baton Rouge, LA 70803	2/71-12/73	R. B. Johnson and J. D. Hargroder. Use of Credit and Other Resources by Low Income Farmers in the Macon Ridge Area of Louisiana, Research Rpt No. 472, Agricultural Exp Sta, 1974.

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	and absolute numbers of low-income farmers and rural residents who are aware of potential sources of credit; have been unable to borrow from conventional credit sources; and would borrow if credit were available. Formulate and evaluate alternative means for increasing productivity and, hence, potential earnings of low-income rural residents (including off-farm employment): to furnish research information to the Cooperative Extension Service, State Rural Development Committees and others who are interested in supporting action programs in credit and finance for low-income farm and rural residents. (LA-BO-1555)			
1.13.2	SUPPLYING AND FINANCING LOCAL PUBLIC SERVICES IN RURAL AREAS TO MEET CHANGING ECONOMIC CONDITIONS. Obtain information on types, extent, and use patterns of public services in rural areas and to analyze per capita costs of these services; compare administrative policies and sources of financing of public services; and evaluate influence of availability and costs of public services upon economic development, population, and out-migration. (KY-00085)	A. F. Bordeaux Department of Agricultural Economics University of Kentucky Lexington, KY 40506	1/70-12/74	L. C. Morgan and A. F. Bordeaux, Jr. Urban Public Service Costs and Benefits of Rural-to-Urban Migration, Southern Journal of Agricultural Economics, Vol 6, No. 1, July 1974, pp 91-96.

1.14 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: TAXATION

No research resumes available.

1.15 Major Area: COMMUNITY SERVICES AND FACILITIES Minor Area: MISCELLANEOUS AND UNCLASSIFIED

No research resumes available.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.01	Major Area: PEOPLE BUILDING	Minor Area: HUMAN DEVELOPMENT		
2.01.1	AGED IN NORTH CAROLINA: PHYSICAL, SOCIAL AND ENVIRONMENTAL CHARACTERISTICS AND SOURCES OF ASSISTANCE. Describe and compare certain physio-socioenvironmental characteristics of rural and urban persons 65 years and older in terms of sources supplying them with information relative to aging, types of information received, and types and sources of information or services desired. (NC-03240)	V. R. Kivett Department of Home Economics University of North Carolina Greensboro, NC 27412	7/69-6/74	V. R. Kivett, C. Bishop, and J. Watson. Characteristics and Needs of Persons 65 Years and Older in Guilford County, North Carolina, Tech Rpt No. 6, Home Economics Center for Research, University of North Carolina, Oct 1973.
2.01.2	COLLEGE CAREER DEVELOPMENT STUDY OF THE RURAL COLLEGE STUDENT. Develop and administer a new educational development questionnaire to be applied to randomly sampled cohorts at Langston University to develop better insights into the maturational process of the college student on a year-by-year basis. In general, the data will be oriented to reflect developing student attitudes toward social institutions, personal relations, economic factors and nutrition. (OK-AR-03)	R. K. Kinnard Langston University Langston, OK 73050	7/69-6/72	None reported.
2.01.3	COLLEGE MATURATION STUDY. Measure adaptive and development changes within the college student through his four years of college, and evaluate the significance of differences between the four academic levels--freshmen, sophomores, juniors, and seniors--and the difference in the same students in a one-year period in college. (OK-AR-04)	R. E. Kinnard Langston University Langston, OK 73050	7/70-12/73	None reported.

2.01.4	DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN THE SOUTH AND THEIR PATTERNS OF MOBILITY. To follow the life adjustments of a sample of young people from the rural South who were studied earlier in regional project S-61 (objective C). A. To determine patterns of development, adjustment and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. B. To determine factors influencing differentials in these patterns of development, adjustment and mobility of rural youth. C. To ascertain the rates and direction of historical change in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education, job, and family. (AL-327)	J. E. Dunkelberger Department of Agricultural Economics and Rural Sociology Agricultural Experiment Station Auburn University Auburn, AL 36803	7/71-6/74	None reported.
2.01.5	DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN THE SOUTH AND OTHER PATTERNS OF MOBILITY. Follow the life adjustments of a sample of young people from the rural South who were studied earlier in regional project S-61 (objective C). A. Determine patterns of development, adjustment and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. B. Determine factors influencing differentials in these patterns of development, adjustment and mobility of rural youth. C. Ascertain the rates and direction of historical changes in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education job, and family. (GA-00439)	M. J. Knapp G. D. Lowe Department of Agricultural Economics University of Georgia Athens, GA 30601	7/71-6/75	P. McAllister, C. S. Stokes, and M. J. Knapp. Size of Family of Orientation, Birth Order, and Fertility Values: A Reexamination, Journal of Marriage and the Family 36, May 1974, pp 337-342. J. P. Alston and M. J. Knapp. Intergenerational Mobility Among Black Americans: Background Factors and Attitudina Consequences, Journal of Black Studies 4, Mar 1974, pp 285-302. M. J. Knapp and R. Smith. Educational Projections of Georgia Rural Youth: An Historical Comparison, Rural Sociology in the South: 1974, Proceedings, Rural Sociology Section (SAAS), Feb 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				P. McAllister. Family Size Expectations and Life Style Intentions Among High School Seniors, master's thesis, University of Georgia, Aug 1974.
2.01.6	DEVELOPMENT OF HUMAN RESOURCE POTENTIALS OF RURAL YOUTH IN THE SOUTH AND THEIR PATTERNS OF MOBILITY. Follow the line adjustments of a sample of young people from the rural South who were studied earlier in regional project S-61. Determine patterns of development, adjustment and mobility of rural youth relative to occupation, education, family development, and place of residence during the transition from adolescence to early adulthood. Determine factors influencing differentials in these patterns of development, adjustment and mobility of rural youth. Ascertain the rates and direction of historical change in the values, aspirations, and expectations of different types of rural youth relative to place of residence, education, job, and family. (SC-00982)	V. A. Boyd E. L. McLean Department of Agricultural Economics & Rural Sociology Clemson University Clemson, SC 29631	7/71-6/74	V. A. Boyd. Changes in Occupational Aspirations of South Carolina High School Students, 1967-1973, panel presentation at Southwestern Sociological Association, Dallas, TX, Mar 1974. V. A. Boyd. Changes in Educational Aspirations of South Carolina High School Students, 1967-1973, panel presentation at Southern Association of Agricultural Scientists, Memphis, TN, Feb 1974. V. A. Boyd. Changes in Residential Aspirations of South Carolina High School Students, 1967-1973, panel presentation at Annual Meeting of Rural Sociological Society, Montreal, Canada, Aug 1974.
2.01.7	THE ECONOMICS OF PROFESSIONAL DRIVER TRAINING. Describe and analyze development of formal truck driving schools	L. A. Ihnen Department of Agricultural Economics	4/71-3/74	A. G. Cuthbertson. Occupational Training in the Trucking Industry,

	in the U. S., estimate costs, returns for investment in formal professional truck driver training through the N. C. Truck Driver Training School, with emphasis on students from rural areas. (NC-13332)	North Carolina State University Raleigh, NC 27607		dissertation, Department of Economics, N. C. State University, 1971.
2.01.8	EVALUATION OF VOCATIONAL TRAINING FOR RURAL PEOPLE. Analyze impacts of post-high school vocational training and related supportive services on the employment and earnings experiences of trainees with rural backgrounds, as compared with those from urban settings. Assess net effects of selected programs from the viewpoint of investments involved and overall benefits derived, focusing especially on the supportive features found to be most relevant to trainees with rural backgrounds. (TN-00365)	D. W. Brown Department of Agricultural Economics University of Tennessee Knoxville, TN 37916	7/72-6/75	None reported.
2.01.9	FARM LABOR IN TENNESSEE. Inventory and describe changes; estimate supply and demand; determine effect of minimum wage; and estimate migration by counties. (TN-00285)	L. L. Bauer Department of Agricultural Economics University of Tennessee Knoxville, TN 37916	10/68-6/74	C. R. Hancock. An Estimation of the Impact of Technology on Agricultural Output in the Southeast, master's thesis, University of Tennessee. G. B. Sappington and L. L. Bauer. Income and Mobility of Tennessee Farm and Nonfarm Workers, 1960-65, University of Tennessee, Agricultural Sta Bulletin 471, 1970. G. B. Sappington and L. L. Bauer. The Impact of 1960-65 Conditions of Nonfarm Income, Farm Employment, and Mobility, by Race and Sex in Tennessee, University

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				of Tennessee, Agricultural Sta Bulletin 477, Mar 1971.
2.01.10	HUMAN RESOURCE DEVELOPMENT IN THE FRAMEWORK OF RURAL DEVELOPMENT. (1) Assess the effectiveness of education in Arkansas in providing needed skills. (2) Analyze the job market for those qualifying for nonprofessional jobs and suggest ways in which the market can be improved. (3) Consider the impact of new industries in the state on unemployment, income, and related facilities. (AR-00746)	J. M. Redfern B. Green Department of Agricultural Economics & Rural Sociology University of Arkansas Fayetteville, AR 72701	2/71-6/74	L. Green and G. R. Hawkes. Development as a Multi-stage Process: Growth and Change, a Journal of Regional Development, Vol 5, No. 4, Oct 1974, pp 21-25. M. J. Grinstead, B. L. Green, and J. M. Redfern. Does Culture of Poverty in the Labor Force Deter Rural Industrialization? Arkansas Farm Research, Vol XXIII, No. 2, Mar-Apr 1974, p 11. J. M. Redfern and B. L. Green. The Effects of Rural Industrialization on Small Arkansas Towns, Arkansas Farm Research, Vol XXIII, No. 3, May-June 1974, p 11. L. D. Bender, B. L. Green, and R. R. Campbell. Ghettos of Poverty in the Ozarks, American Association of Planning Officials, Aug 1973, pp 13-15. (Also reproduced in Esthetics, Reviews on the Problems and Science of Human Settlements, Vol 36, No. 217, Dec 1973, pp 420-422.)

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C. E. Leitle, B. L. Green, and C. R. Britton. Adjustments Made by Communities with an Exhaustible Resource Base, Arkansas Farm Research, Vol XXI, No. 3.
B. L. Green and J. M. Redfern. Social and Labor Adjustment of Rural Black Americans in the Miss. Delta, A Case Study of Madison, Ark., Agricultural Economic Report No. 274.
M. J. Guinstead, B. L. Green, and J. M. Redfern. Rural Development and Labor Adjustment in the Mississippi Delta and Ozarks of Ark., Bulletin 795, Mar 1975.
R. N. Davis, B. L. Green, and J. M. Redfern. Low-Income Rural People in East Central Arkansas Face Roadblocks to Jobs, Agricultural Economic Rpt No. 209.

2.01.11 HUMAN RESOURCE DEVELOPMENT PROBLEMS AND POTENTIALS IN GEORGIA AND THE SOUTHEAST. Establish norms for defining labor market maladjustments, isolate explanatory variables associated with per capita income variability, derive empirical estimates of earning capacity and actual per capita earnings, develop indices of local labor maladjustment, analyze the acuteness of labor maladjustments in local rural farm and nonfarm sectors, and test the

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6/70-6/74

J. W. Nixon and W. Musser. Rural Manpower Situations and Needs in the Soutneast, Faculty Series 74-3, Division of Agr Economics, Sept 1974.
Rural Manpower Perspectives and Research Under the Comprehensive Employment and Training Act, prepared for Governor's office, State of Georgia, Apr 1974.

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MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	"relative" importance of variables affecting labor maladjustments as a base for analyzing potential adjustment alternatives. (GA-000425)			Measuring Underemployment: Application of Relative Income Analysis. Presented at annual meetings of Southern Agr Economics Association, Memphis, TN, Feb 1974. J. W. Nixon, F. C. White, and B. R. Miller. Elements of Successful Labor Management Among Georgia Farmers, paper, University of Georgia, College of Agriculture.
2.01.12	INFLUENCES ON OCCUPATIONAL GOALS OF YOUNG PEOPLE FROM THREE SUBCULTURES IN THE SOUTH. Determine relationship between selected family characteristics and occupational goals of youth, and of their mothers for them in three subcultures: Appalachian White, Rural Negro, and Urban Negro. Determine effectiveness of selected methods of implementing changes in mother's information and attitudes which in turn should raise the occupational aspirations of these youth. (KY-00811)	A. L. Coleman Department of Sociology University of Kentucky Lexington, KY 40506	6/67-12/73	Influences on Occupational Goals on Young People in Three Southern Subcultures, Information Series I, Southern Regional Research Project S-63, Agricultural Exp Stas of AL, KY, MS, NC, SC, TN, and VA, June 1974. A. L. Coleman. Chapter I, Introduction, p 1; Chapter VI, Paper 2, Mothers Attitudes and Their Aspirations for Their Children, pp 105-118; Chapter VI, Paper 5, Status Characteristics of the Mother and the Household as They Affect Other Variables, pp 141-148. C. H. Proctor, A. R. Butler, and L. E. Southworth. Chapter XI, Summary and Conclusions, pp 203-214.

2.01.13	INFLUENCES ON OCCUPATIONAL GOALS OF YOUNG PEOPLE. Determine relationship between selected family characteristics and occupational goals of youth and of their mothers for them in selected groups from three subcultures: Appalachian White, Rural Negro, and Urban Negro. Determine effectiveness of selected methods of implementing change in mother's information and attitudes which in turn should raise the occupational aspirations of these youth. (SC-00826)	K. S. Powell N. R. Covington Department of Home Economics Clemson University Clemson, SC 29631	4/67-12/73	V. A. Boyd, A. G. Funk, G. R. Lurie, and N. J. Pettigrew. An Assessment of a Program for Rural Youth from Low-Income Families in South Carolina, Extension Circular 559, Clemson University, cooperating with USDA. A. H. Barton, et al. Influences on Occupational Goals of Young People in Three Southern Subcultures, Information Series I, "Research Report: Baseline and Experimental Phases," June 1974; "Program Plans for Group Meetings," Information Series II, Mar 1973; "Follow-up Study on Influences on Occupational Goals of Youth from Three Subcultures in the South," Nov 1974; Southern Regional Research Project S-63, Agricultural Exp Stas of AL, KY, MS, NC, SC, TN, VA, and USDA cooperating. Needs for Child Care and Potentials for Rural Family, Individual, and Community Development. University of NC, Winthrop College, NC State University, and Clemson University, 1 July 1974.
2.01.14	INFLUENCES ON OCCUPATIONAL GOALS OF YOUNG PEOPLE. Determine relationship between selected family characteristics	J. L. Kuipers L. E. Southworth Department of Child	4/67-6/74	L. Southworth and S. Shoffner Description of Instruments, Chapter IV; L. Southworth,

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	and occupational goals of youth and of their mothers for them in three subcultures: Appalachian White, Rural Negro, and Urban Negro. Determine effectiveness of selected methods of implementing change in mother's information and attitudes which in turn should raise the occupational aspirations of these youth. (TN-00265)	Development & Family Relations University of Tennessee Knoxville, TN 37916		Z. Albert, and A. Gravatt. Child's I.Q., Firstborn Variable, Child's Perception of Mother's Behavior, Mothers' Values for Her Child, and Their Relationships with Other Variables, Chapter VI, Paper 4; L. Coleman, C. Proctor, and R. Butler. Summary and Conclusions: What Have We Learned? Chapter XI; Influences of Occupational Goals of Young People in Three Southern Subcultures, Information Series I, Research Report: Baseline and Experimental Phases, June 1974.
2.01.15	INFLUENCE ON OCCUPATIONAL GOALS OF YOUNG PEOPLE. Determine relationship between selected family characteristics and occupational goals of youth and of their mothers for them in three subcultures: Appalachian White, Rural Negro, and Urban Negro. Determine effectiveness of selected methods of implementing change in mother's information and attitudes which in turn should raise the occupational aspirations of these youth. (VA-0626113)	J. E. Montgomery Management Housing & Family Development Virginia Polytechnic Institute Blacksburg, VA 24061	7/67-12/73	J. E. Montgomery and J. W. Maxwell. Research Report: Baseline and Experimental Phases, Influences on Occupational Goals of Young People in Three Southern Subcultures, Information Series I, Southern Regional Research Project S-63, Agricultural Exp Stas of AL, KY, MS, NC, SC, TN, VA, and USDA cooperating, 1974, 336 pp.

2.01.16	OCCUPATIONAL GOALS OF YOUTH. Determine the relationship between selected family characteristics and occupational goals of youth and of their mothers for them in three subcultures: Appalachian Rural White, Rural Negro, and Urban Negro. Determine effectiveness of selected methods of implementing change in mother's information and attitudes which in turn should raise the occupational aspirations of these youth. (NC-11063)	S. M. Shoffner Department of Home Economics North Carolina State University Raleigh, NC 27607	5/67-12/73	S. M. Shoffner and R. H. Klemer. Parent Education for the Parental Role in Children's Vocational Choice. The Family Coordinator 22, No. 4 (Oct 1973). Southern Regional Technical Committee for Family Life. Program Plans for Group Meetings-Influences on Occupational Goals of Young People in Three Southern Subcultures, Agricultural Exp Sta, School of Home Economics, A & T University of North Carolina, Information Series II, Mar 1973.
2.01.17	PERSONAL STABILITY AND SOCIAL ADJUSTMENT OF KENTUCKY MOUNTAIN PEOPLE AS RELATED TO FAMILY PATTERNS. Study the personal stability and social adjustments of eastern Kentuckians, the relationship of selected variables (including current socio-economic and cultural changes) to their mental health, and their perception of mental health and illness. (KY-00812)	T. R. Ford E. G. Youmans J. S. Brown Department of Rural Sociology University of Kentucky Lexington, KY 40506	7/69-6/74	E. G. Youmans. Age Group, Health, and Attitudes, The Gerontologist, Vol 14, No. 3, June 1974, pp 249-254.
2.01.18	PROBLEMS OF POPULATION DECLINE IN RURAL AREAS. Estimate effects in rural areas of rural-urban migration on income to resources, personal income, and its distribution and interaction between economic and demographic variables. Analyze actual and potential employment of displaced rural people in nonfarm employment by capital importation. (NC-03231)	B. L. Gardner Department of Agricultural Economics North Carolina State University Raleigh, NC 27607	4/69-4/74	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.02	Major Area: PEOPLE BUILDING	Minor Area: WELFARE		
2.02.1	COMPARISON OF RURAL POVERTY IN NORTH CAROLINA AND WISCONSIN WITH IMPLICATIONS FOR LABOR FORCE PARTICIPATION RATES. Make comparisons of major physical resources and the economic and personal characteristics of rural farm and nonfarm populations of North Carolina and Wisconsin. Compare poverty lines and evaluate policy alternatives for North Carolina and Wisconsin. (NC-00307-014)	H. F. Robinson Department of Agricultural Economics A & T University of North Carolina Greensboro, NC 27412	6/69-6/72	None reported.
2.02.2	ECONOMIC ADJUSTMENT OF POVERTY STRICKEN RURAL PEOPLE IN NORTH CAROLINA. To study via survey alternative policy proposals to upgrade human and physical resource development. To evaluate alternative outcomes of policies for developing human resources. (NC-00307-077)	H. F. Robinson Department of Agricultural Economics A & T University of North Carolina Greensboro, NC 27411	3/68-6/71	None reported.
2.02.3	AN EVALUATION OF THE EFFECT OF INCOME MAINTENANCE PROGRAMS ON RURAL PEOPLE IN NORTH CAROLINA. Identify typologies of poverty in North Carolina, compare the traditional welfare system with income maintenance programs and assess the relative economic well being of rural people in North Carolina. Secure implications for alternatives to income maintenance programs. (NC-X-307-020)	H. F. Robinson A & T University of North Carolina Greensboro, NC 27412	6/70-6/75	None reported.

2.02.4	THE FAMILY ASSISTANCE PLAN AND ITS IMPLICATIONS TO RURAL NORTH CAROLINA. Identify the objectives of the family assistance plan; evaluate the impact of the implementation of the present plan on the rural population; devise viable alternatives to the family assistance plan. (NC-X-307-025)	H. F. Robinson Human Resource Development Center A & T University of North Carolina Greensboro, NC 27412	5/71-6/73	None reported.

2.03	Major Area: PEOPLE BUILDING	Minor Area: HEALTH AND NUTRITION

2.03.1	EATING HABITS AND PATTERNS OF SELECTED LOW-INCOME FAMILIES IN TWO WEST TENNESSEE COUNTIES. Determine: local food habits, attitudes, likes and dislikes; methods of food procurement--buying practices, home grown, food stamps, commodity and supplementary foods and the cost of foodstuffs; the extent to which each commodity or supplementary food and food purchased with food stamps is incorporated into the family nutrition, program, including meal planning; and food intake and nutritive value of the dates for two seasons based on a 24-hour recall. (TN-01-4122-34204)	O. L. Adams M. G. Towns Department of Home Economics Tennessee A & I State University Nashville, TN 37203	7/70-6/72	Health, Food and Nutrition Research at Tennessee State University. 14th Annual Farm and Home Institute Bulletin, Nov 10, 1972.
2.03.2	ECOLOGY OF NUTRITION OF A LOW-INCOME COMMUNITY IN NORTH CAROLINA. Identify the extent that levels of nutrition in a sample low-income community can be associated with environmental factors. Extend the information base to develop action guidelines for government agencies, educators and other interested agencies toward adjustment of nutritional levels to an optimum. (NC-00307-20-B)	S. N. Ganapathy Department of Home Economics A & T University of North Carolina Greensboro, NC 27411	6/69-6/72	The Influence of Some Social Factors on the Nutritional Adequacy of Food Consumed by Black Families. Master's thesis, North Carolina A & T State University, June 1972.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.03.3	THE EFFECT OF DIETARY TRACE ELEMENTS IN A SELECTED POPULATION. Study the role of trace elements in human development. Determine how various organs are affected by dietary trace elements. Determine the dietary levels of trace elements for low-income families in Kentucky. Determine to what extent diets containing supplemental trace minerals will correct the biological impairments resulting from intake of abnormal levels of trace elements. (KY-00101)	C. A. Smith, Jr. W. J. Fleming O. M. Cheaney Department of Chemistry Kentucky State University Frankfort, KY 40601	7/69-6/72	None reported.
2.03.4	FOOD CONSUMPTION, DIETARY PATTERNS AND SCHOOL PERFORMANCE OF ADOLESCENTS. Questionnaires will be developed to collect data for one week during the school year. Parents, teachers, and/or other persons will be interviewed to check the validity of the data. The data will be coded, tabulated, and processed in the computing center at Alcorn State University. It will be analyzed for the usual meal patterns and the relationship of adequate nutrient content to such factors as school performance (based on grade level), socio-economic background of the family, sex, etc. Differences of students receiving free lunches, partially free, nonfree, and home-packed lunches will also be determined. Between 300 and 450 subjects attending high school in Adams, Claiborne, and Jefferson counties will be used to complete the study. (MS-1971-01)	M. Smith Department of Home Economics Alcorn State University Lorman, MS 39096	6/71-6/74	S. T. Washington. Manage Your Holiday Dollars, paper prepared for Alcorn State University, USDA.

2.03.5	IDENTIFICATION OF SUBCLINICAL MALNUTRITION. Expand the body of knowledge for improving nutrition as a factor in rural development in Franklin County, KY, by: identifying effective tools for collecting food habit data; comparing food habit data with metabolic parameters; adapting instrumental techniques to rapid measurement of nutritional state. (KY-00102)	W. J. Fleming O. M. Cheaney C. Lee Department of Chemistry Kentucky State University Frankfort, KY 40601	5/70-1/74	None reported.
2.03.6	MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT (BIOLOGY). Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-12)	W. J. Fleming Department of Biology Kentucky State University Frankfort, KY 40601	1/72-6/74	None reported.
2.03.7	MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT (HOME ECONOMICS). Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-19)	O. M. Cheaney C. J. Lee Department of Home Economics Kentucky State University Frankfort, KY 40601	1/72-6/74	None reported.
2.03.8	MONITORING SUBCLINICAL MALNUTRITION TO ENHANCE RURAL DEVELOPMENT (SOCIOLOGY). Develop a system approach for routine monitoring of subclinical malnutrition in rural populations. Identify and relate factors coincident to the nutritional state relative to rural development. (KY-X-PR-0001-24)	L. L. Guimaraes A. W. Wright C. A. Humphrey Department of Sociology Kentucky State University Frankfort, KY 40601	1/72-6/74	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.03.9	NUTRITIONAL STATUS OF SELECTED LOW-INCOME FAMILIES IN TWO WEST TENNESSEE COUNTIES. Determine nutritional status of selected low-income families by biochemical methods. (TN-0001-4166-34434)	O. L. Adams M. G. Towns Department of Extension Education Tennessee A & I State University Nashville, TN 37203	6/71-6/73	G. J. Brown. The Nutritional Status of Selected Low-Income Families in Two West Tennessee Counties, master's thesis, Tennessee State University, Aug 1973. Nutritional Status of Selected Low-Income Families in Two West Tennessee Counties. Paper presented at workshop on Role of Land-Grant Institutions in Applied Human Nutrition at North Carolina A & T University, Oct 1-4, 1973.
2.03.10	NUTRITIONAL STATUS: A SOCIOLOGICAL APPROACH. To develop models for interdisciplinary applied research useful for improving nutritional status and increasing self-help of impoverished people. (MS-4003)	Helen Armstrong Department of Home Economics Mississippi Agricultural Experiment Station Mississippi State University Mississippi State, MS 39762	7/71-6/73	None reported.
2.03.11	SOYBEAN PROTEIN IN IMPROVING NUTRITIONAL STATUS OF LOW-INCOME FAMILIES. Improve nutritional status of poverty subjects by feeding synthetic meat. (GA-FVSC-CSRS-02)	O. Simpson S. F. Rahman M. C. Blount Division of Agriculture Fort Valley State College Fort Valley, GA 31030	6/68-6/71	None reported.

2.04	Major Area: PEOPLE BUILDING	Minor Area: DEMOGRAPHY		
2.04.1	ANALYSIS OF POPULATION. Provide readily accessible source of information on the characteristics of the people of Louisiana including trends and significance for planning and development within the state. (LA-BO-1073)	A. L. Bertrand T. E. Koebernick Department of Rural Sociology Louisiana State University Baton Rouge, LA 70803	7/61-6/75	None reported.
2.04.2	ASSOCIATION OF RACE, SEX, URBAN AND RURAL RESIDENCE WITH ACHIEVEMENT. Develop techniques for measuring the contribution of sex, race, and rural and urban residence to education, occupation, and income and test the hypothesis that the contribution of race, sex, and residence decreased from 1960 to 1970. (NC-13444)	C. P. Marsh Department of Sociology & Anthropology North Carolina State University Raleigh, NC 27607	7/74-6/75	None reported.
2.04.3	THE CHANGING COMMUNITY. Determine the demographic, ecological and sociocultural characteristics of types of communities; analyze changes in the institutional and sociocultural relations; determine which growth factors may be applied in directing change and analyze the patterns of adjustment to change made by persons in the community. (NC-13265)	A. C. Davis S. C. Mayo Department of Sociology & Anthropology North Carolina State University Raleigh, NC 27607	7/69-6/74	A. C. Davis, W. B. Clifford, R. D. Mustian, and P. L. Tobin. Fertility Behavior in a Tri-Racial Low-Income, Rural County, Progress Report SOC 60, Agricultural Exp Sta, NC State University, 1974. A. C. Davis. Public Participation in Water Pollution Control Policy and Decision Making, Rpt No. 88, Water Resources Research Institute, NC State University, 1973. A. C. Davis. Citizen Awareness and Participation in Water Pollution Control Policy and Decision Making,

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				A Research Special, Water Resources Research Institute, NC State University, 1974. W. B. Clifford, A. C. Davis, R. D. Mustian, and P. L. Tobin. Modern and Traditional Value Orientations and Fertility Behavior in a Rural County, paper presented at the Southern Sociological Society, 1974.
2.04.4	DETERMINANTS AND CONSEQUENCES OF POPULATION TRENDS. Investigate extent, character, and significance of recent population changes in North Carolina such as composition, residence, migration, fertility, mortality, and rates of growth as these affect the social and economic opportunities of rural people. (NC-13266)	S. C. Mayo W. B. Clifford Department of Sociology & Anthropology North Carolina State University Raleigh, NC 27607	7/69-6/74	W. B. Clifford, A. C. Davis, R. D. Mustian, and P. L. Tobin. Modern and Traditional Value Orientations and Fertility Behavior in a Rural County, paper presented at the meetings of the Southern Sociological Society 1974. W. B. Clifford and T. R. Ford Variations in Value Orientations and Fertility Behavior, Social Biology, Vol 21, No. 2 Summer 1974. A. C. Davis, W. B. Clifford, R. D. Mustian, and P. L. Tobin. Fertility Behavior in a Tri-Racial Low-Income, Rural County, Progress Report SOC 60, Agricultural Exp Sta, NC State University, 1974.

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				P. O. Tobin, W. B. Clifford, R. D. Mustian, and A. C. Davis. Value of Children and Fertility Behavior in a Tri-Racial, Rural County, paper presented at the meetings of the Population Association of America, 1974. Y. S. Whitehead and W. B. Clifford. White-Nonwhite Fertility Differentials in North Carolina and the United States, Progress Rpt SOC 59, Agricultural Exp Sta, NC State University, 1974.
2.04.5	FACTORS ASSOCIATED WITH THE MIGRATION OF RURAL PEOPLE FROM SELECTED MISSISSIPPI COUNTIES. Isolate and evaluate selected factors which, it is believed, influence people to leave rural areas of Miss. Ascertain the dominant characteristics, if any, of persons who have migrated from rural areas of Miss. Ascertain the direction and destination of out-migrations and assess their educational and occupational status at their destinations. Relate findings of the study to on-going programs of planning and replanning for comprehensive rural area development and to problems of retaining and further development of local human resources. (MS-1968-01)	W. C. Boykin, Sr. W. F. Jackson Department of Agricultural Education Alcorn State University Lorman, MS 39096	3/68-3/73	None reported.
2.04.6	HUMAN RESOURCE CHARACTERISTICS AND CHANGES IN RELATION TO AGRICULTURE AND RURAL DEVELOPMENT IN TEXAS. Analyze, synthesize, and make available in useable form information concerning the human resources of Texas; analyze and isolate	W. K. Upham E. L. Copeland Department of Rural Sociology Texas A & M University College Station, TX 77843	11/70-6/75	R. L. Skrabanek and W. K. Upham. The Population of Texas: A Decade of Change, Bulletin No. 1141, Texas Agricultural Exp Sta, Apr 1974, 35 pp.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	(a) the characteristics of the poverty population in Texas, and (b) the characteristics of places having unduly large or small proportions of poverty; determine and analyze the patterns of migration in Texas; identify and analyze the human and economic characteristics of two types of counties: (1) those losing population, and (2) those gaining population well above the state growth rate; develop projections of the growth and change in the population of Texas Counties after 1970. (TX-01833)			W. K. Upham and L. Jinenez. Rural Youth in the South: The Population Under Age 25, Information Rpt 73-1, Prairie View A&M University Cooperative Research Center, Aug 1974, 92 pp. L. Jimenez and W. K. Upham. Rural Youth in Five Southwestern States: The Population Under Age 25, Information Rpt 74-1, Prairie View A&M University Cooperative Research Center, Oct 1974, 56 pp.
2.04.7	PROBLEMS AND PROCESS OF ADJUSTMENT OF MIGRANTS FROM SELECTED RURAL MISSISSIPPI COUNTIES. Ascertain problems encountered by people who leave rural Mississippi to live in new locations. Gain a knowledge of the processes employed in making adjustments to live in new locations. Develop guidelines for use by local agencies in advising on migration. (MS-1970-01)	W. C. Boykin, Jr. Alcorn State University Alcorn, MS 39096	6/70-6/73	None reported.
2.04.8	SOCIAL, DEMOGRAPHIC AND ECONOMICS CORRELATES OF COUNTY AND AREA MIGRATION RATES IN KENTUCKY. Construct and test multiple regression models to predict county and area net migration rates. Measure the influence of selected social, economic and demographic factors on net migration rates. (KY-00817)	T. R. Ford J. S. Brown Department of Sociology University of Kentucky Lexington, KY 40506	7/73-6/75	None reported.

2.04.9	SOCIO-ECONOMIC CHARACTERISTICS OF LOW-INCOME FAMILIES IN AN ISOLATED RURAL COMMUNITY. Identify the basic socio-economic characteristics of rural families living in an isolated community; determine the physical resources and quality of public and private utilities available to the community; develop benchmark data for measurement of change in the community; evaluate program impact on families and the community. (PR-00001)	R. Calero L. Muler Department of Agricultural & Rural Sociology University of Puerto Rico Mayaguez Rio Piedras, PR 00928	4/74-10/75	None reported.
2.04.10	SOCIAL AND ECONOMIC IMPLICATIONS OF CHANGING POPULATION OF GEORGIA WITH REFERENCE TO ENTIRE SOUTH. Determine the effects of recent manpower and other types of governmental policies upon the population trends of counties, particularly rural counties; determine the precise influence of new capital investment upon the number of workers, total population trends, and incomes of workers; determine the correlates of metropolitanization, industrialization, and urbanization, as well as rural depopulation, in Georgia and the South generally; and determine the major factors that have affected the population growth and decline of towns and cities in Georgia and the South generally. (GA-00442)	J. D. Tarver J. W. Nixon Department of Agricultural Economics University of Georgia Athens, GA 30601	7/71-6/74	J. D. Tarver and J. W. Nixon. Population Trends of Georgia Cities and Towns: A Half Century of Population Growth, University of Georgia College of Agriculture Exp Sta Research Rpt 145, Oct 1972. S. C. Lilley. An Analysis of Population Change of Georgia Counties, 1950-1970, master's thesis, University of Georgia, 1973.
2.04.11	THE SOCIAL IMPACT OF ECONOMIC AND POPULATION CHANGE IN TRANSITIONAL SOUTH CAROLINA COUNTIES. Determine the interdependent impacts of social, economic, and environmental changes in a heterogeneous region. Five categorical bases will be delineated: community, economic systems, educational institution, political institution and natural resource use. The	E. L. McLean Department of Agricultural Economics & Rural Sociology Clemson University Clemson, SC 29631	2/71-12/73	D. Mulkey and E. McClean. Reference Tables: Population of South Carolina Counties by Race and Sex, 1920-1970, AE 377, Department of Agricultural Economics and Rural Sociology, Clemson University, Oct 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	results from these analyses will be synthesized to determine the concomitant interdependent impacts. (SC-00965)			
2.05	Major Area: PEOPLE BUILDING	Minor Area: EDUCATIONAL PROGRAM EFFECTIVENESS		
2.05.1	EFFECTS OF A SPECIALLY DESIGNED PROGRAM UPON ADVANTAGED AND DISADVANTAGED RURAL STUDENTS. Determine the differences in attitude toward education and employment between advantaged and disadvantaged vocational agriculture students. Compare a new instructional program with the traditional instructional program for their effects on these attitudes; determine whether low income white, American Indian, and Negro students respond differently to the two programs. (OK-1458-S)	R. R. Price Department of Agricultural Education Oklahoma State University Stillwater, OK 74074	1/69-7/70	None reported.
2.05.2	EVALUATION AGRICULTURAL OCCUPATIONAL CAREER DEVELOPMENT FOR RURAL YOUTH. Construction and evaluation of a career development program in agricultural occupations for advantaged and less advantaged rural youth. (OK-01523)	R. R. Price J. P. Key Department of Agricultural Education Oklahoma State University Stillwater, OK 74074	10/71-9/73	F. J. Lark, B. L. Henderson, J. P. Key, and R. R. Price. A Career Development Program in Agricultural Occupations for Advantaged and Less Advantaged Rural Youth, State Department of Vocational and Technical Education, Division of Research, Planning and Evaluation, Stillwater, OK.

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				W. O. Johnson. Evaluation and Revision of a Curriculum for Agricultural Career Awareness in Oklahoma, unpublished Ed.D. dissertation Oklahoma State University, 1974.
2.05.3	AN EVALUATION OF THE EFFECTIVENESS OF INDIGENOUS PERSONNEL IN AN EDUCATIONAL PROGRAM. To evaluate the effectiveness of program aides in facilitating educational assistance to a limited number of farm operators whose gross incomes are less than $10,000 per year. (TX-1839)	V. W. Edmondson H. W. Ladewig Department of Agricultural Economics and Sociology Texas Agricultural Experiment Station College Station, TX 77843	9/70-8/73	None reported.
2.05.4	EVALUATION OF A LEADERSHIP DEVELOPMENT PROGRAM FOR RURAL DISADVANTAGED IN LAWRENCE COUNTY, ALABAMA. To provide information relative to the effectiveness of a leadership development program implemented in Lawrence County, Alabama, on promoting community improvements. (AL-00-0005-71)	J. I. Dawson Department of Agricultural Education Alabama Agricultural and Mechanical College Normal, AL 35762	6/71-6/73	None reported.
2.05.5	IMAGES OF AGRICULTURE STUDENTS TOWARD THEIR TRAINING AND TOWARD AGRICULTURE. Determine factors that influence students to enroll in the School of Agriculture. Determine the occupational status of graduates (1950 to present) of the School of Agriculture and the career expectations of presently enrolled students. Determine perceptions of present and former students of training they are receiving or have received. Determine their perceptions of agriculture industry and how their occupational status relates to the industry. (TX-G1920)	C. D. Knotts Department of Agriculture Prairie View A & M College Prairie View, TX 77445	6/71-6/74	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.05.6	IMPACT OF THE EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM ON LOW-INCOME HOMEMAKERS IN SELECTED ALABAMA COUNTIES. Relate homemaker response to EFNEP to characteristics of low-income homemakers as well as methods employed by program assistants. Develop quantitative measures of homemaker progress for use in relating progress to characteristics and methods employed and assess retention by the homemaker of skills learned from the program after its discontinuance. (AL-00318)	J. E. Dunkelberger Department of Agricultural Economics & Rural Sociology Auburn University Auburn, AL 36830	4/71-6/74	None reported.
2.06	Major Area: PEOPLE BUILDING		Minor Area: HOUSEHOLD DECISIONS AND MANAGEMENT	
2.06.1	CONSUMER PREFERENCE, CHOICE AND DECISION-MAKING OF RURAL LOW-INCOME FAMILIES. Obtain evidence of low-income family choices among selected consumer goods and factors affecting preferences; determine range of choices available to low-income families among these goods and compare preferences among income groups; compare value-attitude systems influencing preference, choice and decision making skills of low-income families. (NC-13323)	K. P. Edwards Department of Family Economics & Housing University of North Carolina Greensboro, NC 27412	4/71-6/74	P. L. Kearney. The Economic Socialization of Elementary School Children: Their Experiences and Understanding, master's thesis, University of North Carolina, 1973.
2.06.2	DECISION-MAKING AND COMMUNICATIONS PATTERNS OF DISADVANTAGED FARM FAMILIES IN THE NORTH CAROLINA COASTAL PLAINS AREA.	E. White E. J. Boone Department of Adult &	2/71-1/74	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.07.2	INTERACTION OF ORGANIZATIONS AND INDIVIDUALS IN GROWING NONMETROPOLITAN TEXAS COMMUNITIES OF 10,000-50,000 POPULATION. Determine the interrelationships among community attributes such as occupational composition, voluntary association membership, interorganizational cooperation, and income distribution in economically growing nonmetropolitan Texas communities of 10,000-50,000 population; and determine the interrelationships among the economic status, job satisfaction, and voluntary association participation of individuals residing in such communities. (TX-01895)	W. H. Oberle Department of Rural Sociology Texas A & M University College Station, TX 77843	1/72-6/75	W. H. Oberle, K. R. Stowers, and J. P. Darby. A Definition of Development, Journal of the Community Development Society, Vol 5, No. 1, Spring, pp 61-71. W. H. Oberle. Role Models of Negro and White Rural Youth at Two Stages of Adolescence, Journal of Negro Education, Vol XLIII, No. 2, Spring, pp 234-244. W. H. Oberle, K. R. Stowers, and J. P. Darby. Family Income and Status Orientations of Ozarks Youth, Youth and Society, Vol 6, No. 1, Sept, pp 91-103.
2.07.3	LEADERSHIP RESEARCH FOR COMMUNITY DEVELOPMENT. Ascertain community leader's and nonleader's perceptions of the needs and problems of the community and the solutions to these problems; compare the perceptions of leaders and nonleaders; determine the feelings and attitudes of respondents toward the local community (particularly living conditions and neighborhood cohesiveness) in relation to community problems and problem solving; determine the beliefs, knowledge, and attitudes of respondents toward migration decision making in relation to community problems and their solution. (LA-X-00004)	J. Moland, Jr. J. H. Hope Department of Agriculture Southern University Baton Rouge, LA 70813	6/70-6/74	A. Thornton. The Measurement of Feelings of Community Solidarity Among Rural Blacks in Three Louisiana Parishes, master's thesis, Southern University, 1972. D. A. McManus. Rural Community Needs and Problems as Perceived by Indigenous Leaders and Non-Leaders in West Feliciana and East Baton Rouge Parishes, master's thesis, Southern University, May 1973.

	Determine kinds of farm-home decisions taken by disadvantaged farm families, processes and sources of information used in taking decisions, linkage between sources of information, socio-psychological factors related to decisions and information sources. (NC-13325)	Community College Education North Carolina State University Raleigh, NC 27607		
2.06.3	HOME AND FAMILY DECISION MAKING PROCESSES FOR RURAL FAMILIES. Identify decision process concepts and indicators of these processes in rural families. Develop instruments for identification and measurement. Compare decision making processes in rural and urban low-income families. Study relationships among the processes and factors such as: decision importance, content, strategy, satisfaction, and participation. (LA-BO-1558)	C. L. Engebretson Department of Home Economics Louisiana State University Baton Rouge, LA 70803	2/71-12/74	None reported.

2.07	Major Area: PEOPLE BUILDING	Minor Area: COMMUNITY DECISION MAKING

2.07.1	IDENTIFICATION OF COMMUNITY LEADERS IN A RURAL, PREDOMINANTLY BLACK COMMUNITY. Develop a simple technique for identifying community leaders in a rural, predominantly black community. Identify community members who influence or are likely to be leaders in community development. Identify the particular spheres of leadership, such as economic, cultural, religious, political, etc. Test the commonality among the identified leaders. (OK-AR-05)	R. E. Kinnard Department of Agriculture Langston University Langston, OK 73050	6/71-12/73	None reported.

				E. J. Means. Rural Community Needs and Problems as Perceived by Indigenous Leaders and Non-Leaders in East and West Baton Rouge Parishes, master's thesis, Southern University, Aug 1973.
2.08	Major Area: PEOPLE BUILDING		Minor Area: LEVEL OF LIVING AND QUALITY OF LIFE	
2.08.1	ASSESSMENT OF FAMILY FUNCTIONING IN RURAL AREAS OF TENNESSEE. Determine the level of functioning of a sample of rural Tennessee families in the categories of family interaction and cohesion, housing environment, economic activities, and community resources and to ascertain factors related to their functioning which have implications for intervention programs. (TN-00354)	A. E. Gravatt H. M. Reed Department of Home Economics - Child Development University of Tennessee	1/72-12/74	L. E. Southworth, Z. E. Albert, and A. E. Gravatt. Manifest Anxiety in Economically Deprived Children in Rural Appalachia, reprinted from Home Economics Research Journal, American Home Economics Association, 1973.
2.08.2	CHANGES IN THE SOCIOECONOMIC STATUS OF FAMILIES IN LOW-INCOME, HIGH MIGRATION RURAL AREAS. Determine the changes and concomitance of changes in the socioeconomic status of families in low-income, high-migration rural areas of Arkansas. Evaluate the effect of migration on the socioeconomic adjustment of households left in the areas, and determine the location, occupation, and family status of members who have moved elsewhere. (AR-00693)	J. L. Charlton Department of Agricultural Economics and Rural Sociology Arkansas Agricultural Experiment Station University of Arkansas Fayetteville, AR 71701	2/68-2/73	G. B. Terry and J. L. Charlton. Changes in Labor Force Characteristics of Women in Low-Income Rural Areas of the South, Southern Cooperative Series Bulletin 185, June 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.08.3	CHARACTERISTICS AND PROBLEMS OF THE AGED IN A DIFFUSED RURAL SOCIETY. To determine the number, characteristics, attitudes, and aspirations of aged persons now living in rural areas of the state and to discover what problems they face in a rapidly changing rural world. Specific objectives relate to a determination of the concepts of retirement and work which the rural aged have and how they plan to adjust to the increasing impact of technology. The characteristics, plans, attitudes and problems of the rural and urban aged will be contrasted to determine possible differences which have implications for the future of the nation. (LA-01147)	A. L. Bertrand Department of Rural Sociology Agricultural Experiment Station Louisiana State University Baton Rouge, LA 70803	1/64-12/75	None reported.
2.08.4	FACTORS AFFECTING PATTERNS OF LIVING IN DISADVANTAGED FAMILIES. Determine the nature and interrelationship of patterns of living in disadvantaged families and factors influencing these patterns. Develop analytical design: select and/or construct the evaluation indicators, indices, and measurements of patterns of living applicable to the study of disadvantaged families. Describe patterns of living and determine factors associated with these patterns. Ascertain the interrelationships of the patterns and the factors influencing these interrelationships. (TX-02906)	W. P. Kuvlesky K. A. Dietrich Department of Rural Sociology Texas A & M University College Station, TX 77843	5/68-6/72	Patterns of Living Related to Income Poverty in Disadvantaged Families: A Basebook. NC-90 Technical Committee, Iowa Agricultural and Home Economics Exp Sta, Special Rpt 74, Aug 1974. E. A. Taft. Relationships Between Family Disability and Family Interaction Patterns, master's thesis, Texas A & M University, Dec 1973. J. A. Sell. Elements of Sex Role Perpetuation in Attitudes of Mothers: A Study of Metropolitan and

				Nonmetropolitan Black Homemakers in East Texas, master's thesis, Texas A & M University, Dec 1974. K. Dietrich and L. Greiser. Residence Differences in Characteristics of Black Lower-Class Families. Texas Agricultural Exp Sta, Texas A & M University, Departmental Information Rpt 74-2, Nov 1974.
2.08.5	HOUSING NEEDS AND SATISFACTIONS OF RURAL FAMILIES IN NORTH CAROLINA. Identify housing needs and satisfactions of rural families in North Carolina. Compare expressed housing needs and satisfactions of consumers with characteristics of occupied dwelling and with characteristics of current housing supply. Evaluate expressed needs in relation to selected demographic characteristics. (NC-13388)	N. H. Holmes Department of Home Economics University of North Carolina Greensboro, NC 27412	11/72-12/75	None reported.
2.08.6	THE HUMAN ECOLOGY AND RECREATIONAL IMPACT OF TOLEDO BEND RESERVOIR. Determine the impact which the development of a natural resource, the Toledo Bend Reservoir, has had on western Louisiana. Specific goals are to provide information to the changes in human ecological patterns and on the users of this giant outdoor recreational facility. (LA-BO-01556)	A. L. Bertrand Department of Rural Sociology Louisiana State University Baton Rouge, LA 70803	2/71-12/75	A. L. Bertrand and J. G. Hoover. Outdoor Recreation Facilities Appeal to Urban Users: "The Toledo Bend Experience," address delivered at Rocky Mountain Sociology Association Meeting, El Paso, TX, Apr 26, 1974.
2.08.7	RELATIONSHIP BETWEEN PERSONAL CHARACTERISTICS AND HOUSING ENVIRONMENT. Determine if there is a relationship between personal characteristics and housing. Ascertain if the sex factor is a variant in determining the effect of the housing environment of personal characteristics. (AR-X-45-2030)	P. Greenhouse J. W. McCray Department of Home Economics University of Arkansas Pine Bluff, AR 71601	6/71-6/73	P. Greenhouse and J. W. McCray. The Relationship Between Personel Characteristics and Housing Environment, CSRS Project No. 116-15-29, 1975.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
2.08.8	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (AL-00316)	C. Vanlandingham W. E. Hardy Department of Agricultural Economics & Rural Sociology Auburn University Auburn, AL 36830	2/71-6/75	None reported.
2.08.9	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South and relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (GA-00432)	H. M. Miller J. D. Tarver Department of Plant Pathology & Weed Science University of Georgia Athens, GA 30601	2/71-6/75	None reported.

2.08.10	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (KY-00815)	J. Brown A. L. Coleman M. Coughenour Department of Rural Sociology University of Kentucky Lexington, KY 40506	4/71-6/75	A. L. Coleman and A. V. Gabbard. Is the Quality of Life in the Kentucky Mountains Improving? The Opinions of Community Knowledgeables and Ordinary Residents in Four Eastern Kentucky Counties, University of Kentucky, Agricultural Exp Sta RS-39, Jan 1974. A. L. Coleman. Changes in Education, Health and Welfare as Perceived by County Knowledgeables, in Rural Sociology in the South: 1974, Proceedings of the Rural Sociology Section, Southern Association of Agricultural Scientists, Memphis, TN, Feb 1974. R. J. Ramsey and P. D. Warner. Kentucky County Data Book: 1960 and 1970, Cooperative Extension Service, University of Kentucky, RD-16, Dec 1974.
2.08.11	RURAL DEVELOPMENT AND QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social economic and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South. (LA-B0-1557R)	V. Steelman Department of Rural Sociology Louisiana State University Baton Rouge, LA 70803	2/71-6/75	J. L. Fortenberry. A Study of Social Participation in Voluntary Association in Five Parishes in Louisiana, unpublished master's thesis, Louisiana State University. V. P. Steelman. Knowledgeables Opinions of Changes in the Quality of l in Twenty-Six Counties, 1960-1972: Introduction and Summary and Knowledgeable Opinions of

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				Changes in Agriculture and Business in Twenty-Six Counties, 1960-1970, in Rural Sociology in the South, 1974, ed. by Arthur G. Cosby, Proceedings of the Rural Sociology Section, Southern Association of Agricultural Scientists, Texas A & M University. V. P. Steelman. Participation in Church and Non-Church Organizations by Adults of Five Louisiana Louisiana Parishes, paper presented at 1974 RSS meetings in Montreal, Canada. V. P. Steelman. The Cultural Context of Food: A Study of Food Habits and Their Social Significance in Selected Areas of Louisiana, LAES Bulletin No. 681, Sept 1974.
2.08.12	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural	W. Frese Department of Rural Sociology Mississippi State University Mississippi State, MS 39762	2/71-6/75	G. O. Windham and T. Nontasak Attitudes of Community Leaders in Six Mississippi Counties Concerning Changes in Selected Socioeconomic Activities During the Past Decade, published in the Rural Sociology in the South -- 1974.

	areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (MS-4102)			Proceedings of the Rural Sociology Section, Southern Association of Agricultural Scientists, Memphis, TN, Feb 3-6, 1974. W. Frese. County Knowledgeables Opinions About Changes in Communication Media, Transportation and Public Utilities in the Rural South: 1960-1972, published in Rural Sociology in the South -- 1974, Proceedings of the Rural Sociology Section, Southern Association of Agricultural Scientists, Memphis, TN, Feb 3-6, 1974.
2.08.13	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (NC-11079)	G. C. McCann Department of Sociology & Anthropology North Carolina State University Raleigh, NC 27607	2/71-6/75	G. C. McCann. Who Are Limited Resource Rural Families, Proceedings: Improved Rural Living on Limited Resources Workshop, Nashville, TN, June 24-27, 1974.
2.08.14	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile demographic	R. Calero L. Muler	9/73-6/75	Natural Increase and Net Migration of Coffee Region

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	and other secondary materials describing changes which have occurred since 1960 in counties and other subareas of the South in a form useful to rural leaders; and determine the changes that have taken place since 1960 in the quality of living for families in the rural areas of selected counties of the South. (PR-00276)	Department of Agricultural Economics & Rural Sociology University of Puerto Rico Rio Piedras, PR 00928		Populations in Puerto Rico, 1960-70, Journal of Agriculture, University of Puerto Rico, Oct 1971. Analisis de la Explotacion Economica de Fincas de Cafe con un Area Total de 200 Cuerdas o Mas, Ext Exp Agr, University of Puerto Rico, Publication 74, Dec 1971. Analisis Economico de 151 Fincas Establecidas a Traves de la Adminstrcion de Hogares de Agricultores, Est Exp Agr, University of Puerto Rico, Bol 232, Apr 1972. Analisis Socio-Economico del Programa de Fincas Individuales del Titulo VI de la Ley de Tierras, Est Exp Agr, University of Puerto Rico, Bol 236, Apr 1974.
2.08.15	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Obtain, analyze, and organize social and economic data from secondary and primary sources that will be useful to leaders in rural areas of the South in pursuing the goals of rural development. (SC-00970)	E. L. McLean Clemson University Clemson, SC 29631	7/71-6/75	E. L. McLean. County Knowledgeable Opinions of Change in the Quality of Life in the Rural South, 1962-1972 (S-79 Region Project), in Proceedings of the Rural Sociology Section, Southern Association of Agricultural Scientists, 1974.

2.08.16	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile materials describing changes during the 1960's in counties and subareas of the South in a form useful to rural leaders. Determine major social, economic, and other changes not covered in available secondary materials. Determine changes since 1960 in quality of living for families in rural areas of selected counties of the South. Relate changes in quality of rural living of families to changes identified from secondary and other sources. Determine patterns of change since 1960 in quality of living for selected families and individuals representing distinctive types in 1960. (TN-00331)	C. L. Cleland Department of Agricultural Economics University of Tennessee Knoxville, TN 37916	3/71-6/75	C. L. Cleland. Southern Regional Research in Rural Sociology During the Sixties, Reflections on the Development of Cooperative Rural Sociology Research in the South, Rural Sociology Series No. 1, Department of Agricultural Economics and Rural Sociology, Agr Exp Sta, Auburn, AL, Apr 1974. Y. Lin. Rural Development Analysis: Direction Identification, Measurement and Interpretation for Public Policy Purpose Applied to Four Tennessee Counties, Ph.D. Dissertation.
2.08.17	RURAL DEVELOPMENT AND THE QUALITY OF LIFE IN THE RURAL SOUTH. Compile demographic and other secondary materials describing changes which have occurred since 1960 in counties and other subareas of the South in a form useful to rural leaders. (TX-02791)	W. K. Upham E. L. Copeland Department of Rural Sociology Texas A & M University College Station, TX 77843	4/71-1/75	W. K. Upham. A 1960 Summary Tape of Sample Population Census Data for Counties, Review of Public Data Use, July 1973, pp 33-39.
2.08.18	SOCIOCULTURAL AND SITUATIONAL FACTORS IN POVERTY IN SELECTED RURAL AREAS IN MISSISSIPPI. Construct a typology of Mississippi counties using selected quantitative indices relevant to socioeconomic development, such as median income, median education, percent rural and urban, percent white and nonwhite, median age, and other measures reflecting general socioeconomic conditions. This typology will serve two purposes: reflect socioeconomic changes between 1960 and 1970	C. R. Sollie W. Frese Department of Rural Sociology Mississippi State University Mississippi State, MS 39762	2/71-6/74	C. R. Sollie, W. Frese, and F. O. Jones. Changes in Quality of Life in Mississippi: 1960-1970, MAFES Agricultural & Forestry Exp Sta. W. Frese, C. R. Sollie, and F. O. Jones. Northeast Extension District Changes in Quality of Life: 1960-1970, Sociology and Rural Life Series No. 27, 1975.

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	and serve as a basis for selecting representative types of counties for in-depth field studies. Determine possibilities and potentialities for improving levels of living of low-income rural families through examination of: education, training and abilities of household heads, homemakers and other family members; attitudes, aspirations and values of household heads, homemakers and other family members; family structure and decision-making processes; housing conditions and needs; patterns of participation in various organizational and agency programs; and economic, cultural, and political conditions in which poverty exists, i.e., characteristics of geographic areas included in the study. (MS-4101)			W. Frese, C. R. Sollie, and F. O. Jones. Southeast Extension District Changes in Quality of Life: 1960-1970, Sociology and Rural Life Series No. 29. W. Frese, C. R. Sollie, and F. O. Jones. Southwest Extension District Changes in Quality of Life: 1960-1970, Sociology and Rural Life Series No. 30.
2.08.19	SOCIAL FACTORS IN THE DEVELOPMENT AND USE OF KENTUCKY'S NATURAL RESOURCES FOR OUTDOOR RECREATION. Determine current patterns and trends in outdoor recreation use in Kentucky and implications for future outdoor recreation needs and utilization. Measure attitudes toward outdoor recreation programs. Assess social and demographic consequences of projected resource development and recreational projects. Develop propositions relating attitudes and values toward leisure and outdoor recreation to users and potential users. (KY-00813)	R. J. Burdge Department of Rural Sociology University of Kentucky Lexington, KY 40506	2/70-6/74	S. Johnson. A Methodology for Using Diachronic Studies to Predict the Social Impact of Resource Development, paper presented at Annual Meeting of Rural Sociological Society, Montreal, Canada, Aug 1974. 289 Wade H. Andrews. Summary of Sociological Studies of Water Resources Dealing with Social Goals and Quality of Life: The Strawman and Other Studies. The Social Well-Being and Quality of

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				Life Dimension in Water Resource Planning and Development, Proceedings of Conference, Institute for Natural Resource Research, Utah State University, 1974. An Interpretative Analysis of Family and Individual Economic Costs Due to Water Resource Development, Water Resources Bulletin, Vol 10, No. 1, 1974, p 91. C. P. Wolf. Social Impact Statements: A Tentative Approach, Social Impact Assessment, 5th Annual Conference of the Environmental Design Research Associates (EDRA), School of Architecture, University of Wisconsin - Milwaukee, May 29-31, 1974.
2.09	Major Area: PEOPLE BUILDING	Minor Area: PUBLIC POLICY		
2.09.1	AN ECONOMIC AND SOCIOLOGICAL STUDY OF AGRICULTURAL LABOR IN THE NORTHEAST STATES. Objectives 1 through 7 of the regional NE-58 project proposal.	D. C. Ruesink C. F. Fritsch D. E. Wright Department of Agricultural Economics	9/70-6/74	C. F. Fritsch. Development of Unemployment Insurance in the United States and Its Relevance to the Agricultural Sector, Chapter, Regional Technical Report. C. F. Fritsch. Estimates of Key Component Cost Levels and Increased Claims Loads

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				Resulting from the Extension of Unemployment Insurance to the Agricultural Sector, compendium of papers presented at the Agricultural Unemployment Insurance Conference, Ohio State University, Apr 25-26, 1973. D. C. Ruesink and C. F. Fritsch. What if Unemployment Insurance Coverage Were Extended to Agriculture?, D. C. Extension Service L1201.

2.10 Major Area: PEOPLE BUILDING Minor Area: SOCIOLOGICAL ASPECTS OF SMALL FARMS

No research resumes available.

2.11 Major Area: PEOPLE BUILDING Minor Area: MISCELLANEOUS AND UNCLASSIFIED

No research resumes available.

3.01 Major Area: ECONOMIC DEVELOPMENT — Minor Area: HOLDING AND ATTRACTING INDUSTRY

3.01.1 EMPLOYMENT IMPACT OF INDUSTRIAL PARKS IN RURAL AREAS OF GEORGIA. Determine the types of firms that might locate in industrial parks in rural Georgia (emphasis on poverty areas). Estimate differential cost of combating pollution between rural and urban locations for specific industries. Measure the employment created by industrial parks in rural areas. Separate total employment in the parks into shifts in employment and net new employment. Divide shifts in employment into shifts from the farm to the nonfarm sector and shifts within the nonfarm sector. (GA-00146)

D. W. Parvin, Jr.
Department of Agricultural Economics
Georgia Agricultural Experiment Station
Experiment, GA 30212

7/71-12/73

B. J. Smith and D. W. Parvin, Jr. Defining and Measuring Rurality (abstract), Proceedings of the Association of Southern Agricultural Workers, Inc., 70th Annual Convention, Atlanta, GA, Feb 4-7, 1973, pp 11-12.

B. J. Smith and D. W. Parvin, Jr. Defining and Measuring Rurality, Southern Journal of Agricultural Economics, Vol 5, No. 1, pp 109-113.

B. J. Smith and D. W. Parvin, Jr. Population Characteristics for Georgia Counties, 1940-1970, Georgia Agricultural Exp Sta Research Rpt 169, Sept 1973, 35 pp.

3.01.2 POTENTIALS FOR RURAL ECONOMIC DEVELOPMENT. Identify and examine means for raising factor productivity. Identify activities for expanding and improving rural employment opportunities. Identify and evaluate those processes and forces that foster or hinder development, and arrange "development" alternatives in some ordering useful to decision-makers. (GA-00435)

S. J. Brannen
E. E. Brown
M. G. Laplante
Department of Agricultural Economics
University of Georgia
Athens, GA 30601

3/71-6/75

F. J. Holemo, E. E. Brown, and H. Hudson. Trout Fee Fish-Out Operations, Japanese Journal of Fish Culture, Vol 6, No. 6, June 1974, 5 pp.

E. E. Brown, F. J. Holemo, and H. Hudson. Catfish Fee Fish-Out Operations, Japanese Journal of Fish Culture, Vol 6, No. 7, July 1974, 5 pp.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				H. Hudson, E. E. Brown, and F. J. Holemo. Combination Fee Fish-Out Operations, Japanese Journal of Fish Culture, Vol 6, No. 8, Aug 1974. H. H. Chen. A Dynamic Analysis of Supply and Demand for Lumber in the United States, 1950-1972, and Projections to 1985, Ph.D. dissertation, Aug 1974.
3.02	Major Area: ECONOMIC DEVELOPMENT		Minor Area: PLANT LOCATION	
	No research resumes available.			
3.03	Major Area: ECONOMIC DEVELOPMENT		Minor Area: INCOME AND EMPLOYMENT EFFECTS OF RURAL INDUSTRY	
3.03.1	ECONOMIC FEASIBILITY OF PRODUCING AND MARKETING HANDICRAFT AND SOUVENIR ITEMS IN THE VIRGIN ISLANDS. Determine the structure size and nature of the tourist trade in the Islands. Estimate the magnitude of the market for island produced handicrafts and art objects. Determine the probable cost of locally produced handicraft, souvenir and art objects in relation to the cost of procuring such	F. B. Sands Virgin Islands Agricultural Experiment Station Kingshill St. Croix, VI 00850	5/73-12/75	None reported.

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MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.04.2	FOREST INDUSTRY IN LOUISIANA -- ITS ECONOMIC IMPORTANCE AND GROWTH. Appraise the Louisiana Forest Industry as to available resources and contribution to the Louisiana economy and the outlook for future growth. Ascertain forest acreage, rate of severance, rate of replacement, level of employment, income, and contribution to rural development. (LA-01624)	F. L. Corty Department of Agricultural Economics & Agribusiness Louisiana State University Baton Rouge, LA 70803	12/72-12/73	F. L. Corty and A. C. Main. The Louisiana Forest Industry - Its Economic Importance and Growth, Department of Agricultural Economics and Agribusiness, Louisiana State University and A & M College, Center for Agricultural Sciences and Rural Development, D.A.E. Research Rpt No. 462, Dec 1973.
3.04.3	POST-PROJECT EVALUATION OF THE CHEAHA CREEK WATERSHED DEVELOPMENT UNDER PUBLIC LAW 566. Measure cost benefits of watershed development and economic impact on county; determine landowner attitudes with emphasis on cost sharing and environmental quality; estimate changes in land-use patterns and values after project completion; compare project evaluation procedures revised by Water Resources Council with procedures under which project was approved. (AL-00359)	H. A. Clonts, Jr. Department of Agricultural Economics & Rural Sociology Auburn University Auburn, AL 36830	1/73-6/75	L. D. Cain. Implications of Watershed Development on Land Value and Land Owner Attitudes, master's thesis, Auburn University. R. W. McCord and H. A. Clonts. Land Use Divisions: Who Makes Them and How?, Alabama Agribusiness, Vol 13, No. 1. R. D. Pepper and H. A. Clonts. The Economy of Talladega County, Alabama: An Input-Output Analysis with Special Reference to the Effects of Watershed Development, Agricultural Exp Sta, Auburn University, Bulletin 53, Jan 1974.

	objects. Assess the impact the development of the above industry might have on the Virgin Island economy. (VI-00007)			
3.03.2	EVALUATION OF THE FUNCTIONING OF FARM LABOR MARKETS. Determine the characteristics of the rural population as to capabilities and employability; estimate current and potential demand for labor; and suggest alternative policies and programs for increasing the economic role played by currently low income people. (AR-00552)	H. J. Meenen B. Green Department of Agricultural Economics & Rural Sociology University of Arkansas Fayetteville, AR 72701	9/60-6/72	L. D. Bender, B. L. Green, and R. R. Campbell. Trickle-Down and Leakage in the War on Poverty, Growth and Change, A Journal of Regional Development, University of Kentucky, Vol 2, No. 4, Oct 1971, pp 34-41.

3.04	Major Area: ECONOMIC DEVELOPMENT	Minor Area: INCOME AND EMPLOYMENT EFFECTS OF NATURAL RESOURCE DEVELOPMENT

3.04.1	EMPLOYMENT AND INCOME EFFECTS OF INVESTMENTS IN NATURAL RESOURCES IN GEORGIA. Estimate the changes in economic activity associated with a natural resource investment in PL 566 small watershed projects, rivers, and harbors projects, private developments and others as appropriate. Estimate the changes in employment levels and income distribution resulting from investments in above. (GA-00412)	W. R. Kerns Department of Agricultural Economics University of Georgia Athens, GA 30601	7/69-6/74	W. R. Kerns. Application of Multivariate Analysis to Determine Influence of Resource Base on Changes in Economic Activity, 1960-70, Southern Journal of Agricultural Economics, Vol 5, No. 2, Dec 1973. G. A. Leclar. The Impact of Public Investments in Natural Resources on Income and Employment in North Georgia, unpublished master's thesis, Department of Agricultural Economics, University of Georgia, Fall, 1973.

3.04.4	REGIONAL INCOME AND EMPLOYMENT EFFECTS OF INVESTMENTS IN NATURAL RESOURCES. To estimate the impact of natural resource investments on the composition of economic activities, employment levels and distribution of income with reference to the problems of economic growth, low income, unemployment and underemployment. (AR-715)	J. M. Redfern Department of Agricultural Economics and Rural Sociology University of Arkansas Fayetteville, AR 72701	7/61-6/69	None reported.
3.04.5	REGIONAL INCOME AND EMPLOYMENT EFFECTS OF INVESTMENTS IN NATURAL RESOURCES. Delineate areas on basis of natural resource investments and identify variables determining effectiveness of investments on area growth. Evaluate effects of investments on composition of economic activity, employment, and income. Evaluate and compare effects of alternative natural resource investments on growth in employment and income. (FL-AS-01473)	B. R. Eddleman E. T. Leohman R. D. Emerson Department of Agricultural Economics University of Florida Gainesville, FL 32601	7/69-6/74	J. C. Cato and B. R. Eddleman. The Effect of Resource Investment Programs on Agricultural Labor Employment and Farm Numbers, Southern Journal of Agricultural Economics, July 1974, pp 213-219. Income Growth Among Areas of the Southeast. For publication as a Cooperative Florida Agr Exp Sta and NRED-ERS-USDA regional research bulletin), 52 pp. J. C. Cato and B. R. Eddleman. The Effect of Resource Investment Programs on Labor Employment in the Southeast (for publication as a cooperative Florida Agr Exp Sta and NRED-ERS-USDA research bulletin), 141 pp.
3.04.6	REGIONAL INCOME AND EMPLOYMENT EFFECTS OF INVESTMENTS IN NATURAL RESOURCES. Delineate areas on the basis of various types of natural resource investments and other criteria; and identify the variables determining the effectiveness	J. E. Waldrop Department of Agricultural Economics Mississippi State University Mississippi State, MS 39762	7/69-6/74	J. D. Hoseman and J. E. Waldrop. Annual Income Payment: An Approach to Increase Produced Efficiency in Small Forest Land Resources, MAFES Bulletin 787.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	of natural resource investments in stimulating area adjustments and growth. Evaluate the economic effects of selected natural resource investments in delineated areas with specific attention given to the effects of the kinds and amounts of investments on the composition of economic activity, employment, and level and distribution of income. Evaluate and compare the effects of alternative kinds and amounts of natural resource investments on growth in employment and income. (MS-4301)			
3.04.7	REGIONAL INCOME AND EMPLOYMENT EFFECTS OF INVESTMENTS IN NATURAL RESOURCES. Evaluate the economic effects of investments in water resources in the Tennessee Valley with specific attention given to the effects upon the composition of economic activity, employment, and levels and distribution of income. (TN-00303)	J. A. Martin Department of Agricultural Economics University of Tennessee Knoxville, TN 37916	7/69-6/74	None reported.
3.04.8	A WOODS LABOR SITUATION ANALYSIS OF NAGODOCHES AND ANGELINA COUNTIES, TEXAS. Determine the labor situation with regard to forest production in Nagodoches and Angelina Counties, Texas. (TX-Y-74-001)	J. D. Lenhart M. Guthrie School of Forestry Stephen F. Austin State University Nagodoches, TX 75961	1/73-5/75	None reported.

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3.05 **Major Area: ECONOMIC DEVELOPMENT** **Minor Area: ALTERNATIVE USES OF NATURAL RESOURCES** 305

No research resumes available.

3.06	Major Area: ECONOMIC DEVELOPMENT	Minor Area: RURAL RECREATION ENTERPRISES		
3.06.1	AN ECONOMIC ANALYSIS OF THE DEMAND FOR LAND AND/OR WATER-BASED OUTDOOR RECREATION. Construct demand functions for those types of outdoor recreation which require the use of land and/or water. Analyze consumer preferences for outdoor recreation activities and facilities. (TX-01557)	I. W. Schmedemann R. J. Freund Department of Recreation & Parks Texas A & M University College Station, TX 77843	2/65-6/72	None reported.
3.06.2	ECONOMIC EVALUATION OF SELECTED OUTDOOR RECREATION FACILITIES. Determine costs and expected returns from developing selected types and combinations of recreation facilities (returns to be based primarily on fee systems). Convert demand for facilities into land, labor, and capital needs. (AL-00299)	E. W. McCoy Department of Agricultural Economics & Rural Sociology Auburn University Auburn, AL 36830	1/70-6/74	G. Gardner and E. W. McCoy. Marinas in Alabama, Alabama Agr Exp Sta, Bulletin 457. R. M. House. Fishing in Southeast Alabama, master's thesis, Auburn University. M. S. Hargrove. An Econometric Model Explaining the Interdistrict Travel of Within State Tourist Groups in Alabama, master's thesis, Auburn University.
3.06.3	EXPANSION OF EMPLOYMENT OPPORTUNITIES IN RURAL RECREATIONAL ENTERPRISES. Determine resource characteristics, income and employment levels, quality of attractions, factors which influence the success of various enterprises, compare the ability of enterprises to compete for traditional resources and project needs for additional recreational enterprises. (GA-00436)	E. E. Brown F. J. Holemo Department of Agricultural Economics University of Georgia Athens, GA 30601		L. E. Zipperer. An Economic Analysis of the Marine Charter Boat Fishing Industry in Georgia, Apr 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.06.4	RECREATION RESOURCES PLANNING AND DEVELOPMENT IN RURAL-URBAN TRANSITION AREAS OF TEXAS. Evaluate the incidence and implications of water-oriented encroachment of urban-like uses upon rural areas, potential recreation sites, hazardous sites, inexperienced governmental and other institutions, and economic development opportunities resulting from recreation, more comprehensive benefit-cost evaluations, including subsequent public service costs, in actively developing situations representative of the overall problem, and enlist cooperation of relevant agencies and organizations. (TX-01658)	F. W. Suggitt C. S. Van Doren Department of Recreation & Parks Texas A & M University College Station, TX 77843	2/71-12/73	Tennessee Colony: Public Use Requirements, June 1972. The Significance of Recreation as a Factor in the Development of Home Sites, Lake Whitney, Texas, Polk County Planning Survey and Analysis, May 1972. Texas Natural Science Park, Feasibility and Justification Study, Austin, revised Jan 1972. The Recreation Resources Development Potential of the San Angelo Research Extension Center, Apr 1972.
3.07	Major Area: ECONOMIC DEVELOPMENT	Minor Area: TECHNOLOGY FOR SMALL FARMS		
3.07.1	CATFISH BREEDING, PRODUCTION AND MARKETING. Determine optimal nutritional values such as protein and lipid requirements of channel catfish under different cultural systems (ponds, raceways, and cages) and the effect of these treatments on limnology conditions. Brood stock for the experiments will be genetically selective. Test different harvesting methods, transporting methods and the ultimate processof the products. Determine the expense production costs, and profits of different size catfish operations. (MS-0801)	R. E. Reagan D. E. Wesley R. P. Wilson Department of Wildlife & Fisheries Science Mississippi State University Mississippi State, MS 39762	7/72-6/75	D. B. Beasley and J. B. Allen. A Characterization of the Effluent from Commercial Catfish Ponds, American Society of Agricultural Engineers, June 1974. M. S. Choudhry, J. O. Hearnsberger, and G. R. Ammerman. Home Canning Channel Catfish, MAFES Research Highlights, Vol 37(11), Nov 1974.

E. L. Henderson, W. H. Brown, C. D. Veal, and J. B. Allen. Training Responses of Channel Catfish (Ictalurus Punctatus) to Sound, American Society of Agricultural Engineers, Dec 1973.

R. E. Reagan and H. R. Robinette. Rainbow Trout Culture: A Possible Winter Use of Catfish Ponds, MAFES Research Highlights, Vol 37(9), Sept 1974.

R. P. Wilson. Nitrogen Metabolism in Channel Catfish, Ictalurus Punctatus--II. Evidence for an Apparent Incomplete Ornithine-Area Cycle, Comp Biochem Physiol 46B:625-634.

3.07.2 COSTS, RETURNS AND ECONOMIC FEASIBILITY OF LIVESTOCK AND DAIRY PRODUCTION IN THE VIRGIN ISLANDS. Determine economic costs, returns, and economic feasibility of beef, swine, poultry and dairy enterprise operations in the Virgin Islands with special emphasis upon St. Croix. (VI-00002)

W. I. Park
P. S. Dhillon
Virgin Islands Agricultural Experiment Station
Kingshill St. Croix, VI 00850

5/73-12/75

Profitability of Beef Production in St. Croix, U.S. Virgin Islands, V.I. Agr Exp Sta Rpt No. 3, 1974.

Profitability of Dairy Farming in St. Croix, U.S. Virgin Islands, V.I. Agr Exp Sta Rpt No. 4, 1974.

Profitability of Poultry Production in the U.S. Virgin Islands, V.I. Agr Exp Sta Rpt No. 5, 1974.

Profitability of Hog Production in the U.S. Virgin Islands, V.I. Agr Exp Sta Rpt No. 6, 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				Potential Returns from Goat and Sheep Enterprises in the U.S. Virgin Islands, V.I. Agr Exp Sta Rpt No. 7, 1974.
3.07.3	THE DEVELOPMENT AND TESTING OF A MANAGEMENT HANDBOOK FOR ECONOMIC OPPORTUNITY COOPERATIVES. Ascertain ways and means of improving the organization, operation, and management of Economic Opportunity Cooperatives; and prepare a Management Handbook for the use of Economic Opportunity Cooperatives; and validate the contents of the Management Handbook by getting the evaluation and counsel of selected cooperative members, officers and managers, Farmers Home Administration personnel, and Agricultural Extension personnel, and others. (MS-1969-01)	J. A. Morris Department of Agriculture Alcorn State University Lorman, MS 39096	6/69-6/74	None reported.
3.07.4	ORGANIZATION OF FAMILY-TYPE FOOD CROP FARMS. Identify food crops, develop input-output data for such crops, and determine profitable combinations of food-crop enterprises for representative family-type farms in selected areas. (PR-00277)	G. E. Pringle Department of Agricultural Economics & Rural Sociology University of Puerto Rico Mayaguez Rio Piedras, PR 00928	9/72-10/73	None reported.
3.07.5	POTENTIAL AND ALTERNATIVES FOR LAND-HOLDING, RURAL NONFARM RESIDENTS AND PART-TIME FARMERS IN PIEDMONT, GEORGIA. Determine the potential for increasing the incomes of land-holding rural residents with nonfarm jobs. (GA-M-1120)	D. W. Parvin, Jr. Department of Agricultural Economics University of Georgia Athens, GA 30601	3/71-4/73	M. R. Holmes and D. W. Parvin, Jr. Results and Implications of Mixed Integer Programming of Small Farm Organizations for Part-Time Farmers in Piedmont

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				County, Dept of Agr Economics, Georgia Agr Exp Sta Research Bulletin 156, Apr 1974.
3.07.6	TYPES OF BROILER PRODUCTION AND MARKETING CONTRACTS: EFFECTS ON GROWER RETURNS. To determine types of production and marketing contracts used by broiler growers. To determine grower costs and returns from producing and marketing broilers under various types of contracts. To develop up-dated production and marketing cost data for grower use in planning entry to, or expansion of, the broiler enterprise. (AR-00803)	W. J. Windham Department of Agricultural Economics University of Arkansas Fayetteville, AR 72701	1/74-12/75	None reported.

3.08 Major Area: ECONOMIC DEVELOPMENT — Minor Area: ENTERPRISES FOR SMALL AND PART-TIME FARMS

3.08.1	CATFISH FARMING AS SUPPLEMENTAL INCOME IN RURAL VIRGINIA: USE OF CATFISH STRAINS TO INCREASE PRODUCTION. Evaluate strains of channel catfish to select one best adapted to use in Virginia. Further test the cage culture technique for growing channel catfish in ponds. (VA-0616191)	R. T. Lackey C. B. Schreck Department of Fisheries & Wildlife Virginia Polytechnic Institute & State University Blacksburg, VA 24061	7/72-9/74	D. W. Holmes, V. M. Douglass, and R. T. Lackey. Pond and Cage Culture of Channel Catfish in Virginia. J. Tenn. Academy of Science 49(2): 74-78. V. M. Douglass and R. T. Lackey. Economics of Channel Catfish Farming in Virginia. Virginia Agricultural Economics 249:2-3. V. M. Douglass and R. T. Lackey. Catfish Research in Virginia: The Catfish Farmer, 5(3):33.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.08.2	COSTS, RETURNS AND ECONOMIC FEASIBILITY OF FORAGE AND FEED-GRAIN PRODUCTION IN THE VIRGIN ISLANDS. Determine costs, returns and economic feasibility of forage and feed production and processing for use by the livestock and dairy industries in the Virgin Islands thereby reducing the need for feed imports. (VI-00006)	B. Ott Virgin Islands Agricultural Experiment Station Kingshill St. Croix, VI 00850	5/73-12/75	Grain Sorghum and Forage Production and Utilization Potential in St. Croix, U.S. Virgin Islands, V.I. Agr Exp Sta Rpt No. 1, 1974.
3.08.3	ECONOMIC EVALUATION OF ALTERNATIVE ENTERPRISES FOR PART-TIME FARM FAMILIES. Evaluate contract poultry and livestock production alternatives for part-time Georgia farm families; appraise factors affecting efficiency in part-time farm family production units; project long range prospects for contract agricultural and nonfarm alternatives. (GA-01122)	G. C. Lance Department of Agricultural Economics Georgia Agricultural Experiment Station Experiment, GA 30212	3/71-6/74	G. C. Lance. Economic Analysis of Turkey Production Costs in Georgia, University of Georgia Agr Exp Sta Research Bulletin 147. G. C. Lance. Economic Comparison of Independent and and Contract Turkey Family Farm Operation in Georgia, Poultry Science 53:1843-1849, 1974.
3.08.4	THE ECONOMICS OF PRODUCTION AND MARKETING OF POND-CULTURED CATFISH. Determine the costs and returns associated with the production of pond-cultured catfish in Louisiana. Relate size of operation to cost and returns to determine whether economics of size exist at present levels of production among Louisiana catfish producers. Identify and study existing market outlets, their size and quality requirements, prices paid, and efficiency and adequacy in meeting the marketing needs of producers of pond-cultured	L. J. Guedry Department of Agricultural Economics & Agribusiness Louisiana State University Baton Rouge, LA 70803	7/70-12/71	None reported.

	catfish. Utilize the present study to identify areas of further research needs in the pond-cultured catfish industry in the state. (LA-BO-1537)			
3.08.5	FEASIBILITY OF PRODUCING TOMATOES FOR MARKET IN THE AVOYELLES PARISH AREA OF LOUISIANA. Develop budgets for production of tomatoes on small farms depending primarily on family labor, and derive an approximate supply potential for the Avoyelles Parish area. Examine market prospects for tomatoes produced in the area. Determine kinds and costs of marketing facilities needed. Evaluate alternative marketing procedures, including methods of selling, and requirements of different kinds of buyers. (LA-BO-1583)	J. Law Department of Agricultural Economics & Agribusiness Louisiana State University Baton Rouge, LA 70803	1/72-3/74	None reported.
3.08.6	FEEDER PIG PRODUCTION FOR LOW-INCOME RURAL DWELLERS IN SOUTHWEST MISSISSIPPI. Investigate mating systems, breeding management, nutritional programs, disease and parasite control, and marketing methods for maximizing profits from a feeder pig operation. (MS-3205)	H. Grier B. G. Diggs Alcorn State University Lorman, MS 39096	2/71-6/74	None reported.
3.08.7	IMPROVED MARKETING OF PRESENT AND ADDITIONAL FRUITS AND VEGETABLES IN THE VIRGIN ISLANDS. Examine more economical and efficient ways of marketing Virgin Island produced fruits and vegetables. (VI-00005)	R. W. Bohall Virgin Islands Agricultural Experiment Station Kingshill St. Croix, VI 00850	4/73-12/75	Fruits and Vegetables Production and Consumption Potentials and Marketing Problems in the U.S. Virgin Islands, V.I. Agr Exp Sta Rpt No. 2, 1974.
3.08.8	INTENSIVE COMMERCIAL CULTURE OF CATFISH IN TEXAS WATERS. Determine optimal production procedures to raise net income of rural Texas farms by using commercial production of catfish as an	J. R. Kelley, Jr. R. K. Strawn R. D. Lacewell Department of Wildlife Science	3/71-3/75	J. R. Kelley, Jr. An Improved Design for Use in Culturing Channel Catfish, Progressive Fish-Culturist 1974(4).

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
	alternative of primary source of income. Find methods of controlling water pollution associated with intensive fish feed-lot operations. (TX-01791-R)	Texas A & M University College Station, TX 77843		
3.08.9	POPULATION AND FARM TYPES IN THE COFFEE REGION. Determine the changes that are taking place in the size, age, sex, and education of the population of the coffee region. Study the operation of family farms in the coffee region. Study the operation and planned adjustments of plantation type farms in the coffee region. (PR-00245)	R. Calero Department of Agricultural Economics & Rural Sociology University of Puerto Rico Mayaguez Rio Piedras, PR 00928	9/70-6/75	R. Calero et al. Socio-Economico del Programa de Fincas Individuales del Programa del Titulo VI de lay Ley de Tierras, Est Exp Agr Univ de P.R., Bulletin 236, Apr 1974, 60 pp.
3.09	Major Area: ECONOMIC DEVELOPMENT	Minor Area: ECONOMIC INTERACTION IN RURAL AREAS		
3.09.1	AN ANALYSIS OF RURAL DEVELOPMENT IN THE SOUTHEASTERN UNITED STATES. Construct a statistical model of rural development in which the contribution of explanatory variables related to economic growth can be quantified. Examine the role of farm production in economic growth. Delineate the policy implications of the relationships indicated in the statistical model. (SC-00980)	R. K. Dehaven Department of Agricultural Economics & Rural Sociology Clemson University Clemson, SC 29631	4/71-3/74	None reported.
3.09.2	DATA INFORMATION SYSTEMS FOR RURAL PLANNING. Design an economic data information system for multi-county planning districts in Oklahoma. Empirically estimate the economic data information system. (OK-1456)	D. F. Schreiner Department of Agricultural Economics Oklahoma State University Stillwater, OK 74074	1/70-6/74	D. F. Schreiner. Planning for Rural Public Sectors, Oklahoma Agr Exp Sta Research Rpt P-708, Nov 1974, 34 pp.

D. F. Schreiner and J. C. Change. Projection and Analysis of the Economies of Substate Planning Districts in Oklahoma, prepared for the Ozarks Regional Commission, Oklahoma State Research Foundation, Stillwater, OK, Sept 1974, 279 pp.

M. A. Knutson. A Woman in the Labor Force: Factors Affecting Both Her Labor Force Decision and the Time She Is Willing to Supply in the Labor Market, master's thesis, Oklahoma State University, 1974.

G. A. Doeksen and D. F. Schreiner. Interindustry Models for Rural Development Research, T-139, Agr Exp Sta, Oklahoma State University, Sept 1974.

D. F. Schreiner, R. G. Davis, and D. E. Barrett. Analysis of Cost for Solid Waste Management in Nonmetropolitan Oklahoma, Agr Exp Sta, Oklahoma State University, B-717, Jan 1975.

A. L. Ekholm, D. F. Schreiner V. Eidman, and G. A. Doekson. Regional Adjustment to Groundwater and Petroleum Depletion, High Plains of Oklahoma and Texas.

3.09.3 DELINEATION OF FUNCTIONAL ECONOMIC AREAS IN TENNESSEE. Identify and delineate functional economic areas within and adjacent to the State of Tennessee. (TN-00327)

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C. R. Kerley
Department of Agricultural Economics
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Knoxville, TN 37916

2/71-6/75

None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.09.4	DEVELOPMENT OF PROCEDURES FOR QUANTIFYING AND ASSESSING THE ECONOMIC WELL-BEING OF RURAL AREAS IN KENTUCKY. Identify a set of relevant economic variables which can be used to assess the level of economic development of rural areas. Construct alternative mathematical and statistical models, make estimates of model parameters and use the fitted models for predicting values of relevant economic development variables. Compare the performance of alternative models using criteria adapted from philosophy of science, economic theory, and the theory of statistical inference. (KY-00089)	G. L. Bradford Department of Agricultural Economics University of Kentucky Lexington, KY 40506	1/71-6/75	B. R. Beattie et al. Assessing Predictive Accuracy in Area Income Forecasting, Southern Agricultural Economics Association meetings, Memphis, TN, Feb 1974. G. L. Bradford and D. L. Debertin. Future Organizational Structure of U.S. Agriculture, Staff Paper 14, Agr Econ Dept, U.K., Oct 1974. B. R. Beattie, T. H. Klindt, and G. L. Bradford. Perfecting Methods for Predicting the Course of Rural Area Development, Part 1, Toward a Definition of Economic Development and a Framework for Evaluating Model Efficacy Research Rpt 11, Apr 1972. T. H. Klindt, G. L. Bradford, and B. R. Beattie. Perfecting Methods for Predicting the Course of Rural Area Development, Part II, Forecasting Income for Selected Rural Areas in Kentucky, Research Rpt 13: Aug 1972. T. H. Klindt, B. R. Beattie, and G. L. Bradford. An Operational Definition of Economic Development: A False Hope.

				B. R. Beattie, G. L. Bradford, and T. H. Klindt. Applying Multiple Regression Techniques in Forecasting Area Economics Development.
3.09.5	ECONOMIC DEVELOPMENT OF THE EASTERN SHORE OF VIRGINIA. Appraise the potential for economic development on the eastern shore of Virginia. Describe and analyze the physical and economic input-output relationships of the agriculture-agribusiness sector. Collect and modify the input-output coefficient of the seafood, the recreation and tourism, and the industrial sectors of the area. Construct a model and evaluate alternative economic development plans. (VA-0616155)	D. E. Kenyon R. L. Chambliss, Jr. R. G. Kline Department of Agricultural Economics Virginia Polytechnic Institute & State University Blacksburg, VA 24061	2/71-6/74	N. P. Sharma and M. C. Conner. Economic Relationships Among Business Sectors, Eastern Shore, Virginia, Research Division Bulletin 88, Apr 1974. R. J. Martin. Economic Development Potentials from Sector Demand Projections and Simulated Industry Alternatives, Eastern Shore, Virginia, unpublished Ph.D. dissertation, Sept 1974.
3.09.6	THE ECONOMIC IMPACT OF CHANGES IN THE INCOME FROM COTTON, PEANUTS, AND TOBACCO ON COMMUNITIES IN GEORGIA. Determine factors associated with changes in income from cotton, peanuts, and flue-cured tobacco in specific areas in Georgia; ascertain the economic effects of agribusiness firms from changing incomes for each crop; determine effects of varying crop values on utilization of other resources in area. (GA-01119)	D. H. Carley R. F. Anderson Department of Agricultural Economics Georgia Agricultural Experiment Station Experiment, GA 30212	7/71-6/75	None reported.
3.09.7	ESTIMATES OF RELATIONSHIPS AMONG SECTORS OF MISSISSIPPI'S ECONOMY. Estimate output, income, and employment multipliers for the Mississippi economy. Assess accuracy of estimated multipliers by alternative prediction methods. Estimate changes in technical coefficients since 1948 to adjust current estimates for likely future trends. (MS-4402)	F. H. Tyner J. E. Waldrop Department of Agricultural Economics Mississippi State University Mississippi State, MS 39762	5/73-12/75	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.09.8	GROWTH POTENTIALS AND BALANCED DEVELOPMENT REQUIREMENTS IN THE WEST PIEDMONT PLANNING DISTRICT OF VIRGINIA. Determine interindustry relationships of the diseconomy and measure effects of sector changes. Identify agricultural and industrial potentials for increasing jobs and incomes and estimate their impacts. Analyze alternative systems of providing greater equity in the delivery of or accessibility to essential community services. Evaluate for varying levels of growth changes in tax bases, public revenues, cost of public services, income levels, and quality of living. (VA-0646226)	M. C. Conner D. Smith Department of Agricultural Economics Virginia Polytechnic Institute & State University Blacksburg, VA 24061	1/74-6/75	None reported.
3.09.9	INDICATORS OF ECONOMIC WELL BEING IN VIRGINIA. Develop the theoretical arguments leading to a complete identification of the components of economic well-being. Analyze the data needs and statistical methods necessary for constructing an index of economic well-being. Assess and compare the levels of economic well-being within Virginia by county and independent city with respect to a single index and individual components of economic well-being. (VA-0200350)	L. A. Shabman Department of Agricultural Economics Virginia Polytechnic Institute & State University Blacksburg, VA 24061	11/73-5/75	None reported.
3.09.10	INTERINDUSTRY ANALYSIS OF THE ECONOMY OF TEXAS: EMPHASIZING THE REGIONAL ECONOMY OF NORTHEAST TEXAS. Estimate the structure of the economy of Northeast Texas and the State. Estimate the demand for	J. M. Sprott Department of Rural Sociology Texas A & M University College Station, TX 77843	9/70-7/74	J. T. Long and J. W. Adams. The Impact of Technological Innovations and Adjustments Within Agriculture on the Economic Growth and

	basic factors of production. Estimate the relationships between regions and the relationship between agricultural and agribusiness sectors and the rest of the regional economy. (TX-01768)			Development of Northeast Texas, Texas Agricultural Exp Sta, Departmental Information Rpt 74-5. J. W. Adams and M. L. Holloway. The Economic Impact of Selected New or Expanding Industries on the Economy of the Lower Rio Grande Region of Texas, Texas Agricultural Exp Sta, Miscellaneous Publication, May 1974. J. W. Adams and M. L. Holloway. Economic Impact of New or Expanding Industries in an Economically Depressed Area, paper presented at Southern Agricultural Economics Association meeting, Memphis, TN, Feb 3-6, 1974. J. W. Adams. An Input-Output Study of the Economy of Northeast Texas, Texas Agricultural Exp Sta, Departmental Information Rpt No. 72-4.
3.09.11	THE MAGNITUDE AND SIGNIFICANCE OF RURAL FARM LABOR IN A CHANGING ECONOMY. Determine the presence or absence of surplus and/or underemployed farm laborers in Georgia; evaluate off-farm employment opportunities for farm people; evaluate the possibilities for rural economic growth. (GA-01071)	W. W. Harper Department of Agricultural Economics Georgia Agricultural Experiment Station Experiment, GA 30212	7/69-12/73	W. W. Harper and E. E. Hubbard. The Farm Labor Force in Economic Area 8 of Georgia During the Period of Agricultural Transition, Georgia Agricultural Exp Sta, Department of Agricultural Economics Research Rpt 197, Nov 1974.
3.09.12	MIGRANT LABOR IN THE SOUTHERN COASTAL PLAIN OF SOUTH CAROLINA. Abstract not provided. (SC-00003)	S. R. Londhe South Carolina State College Orangeburg, SC 29115	6/69-6/74	None reported.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
3.09.13	REGIONAL ANALYSIS FOR RURAL DEVELOPMENT. Design economic models for evaluating alternative production and marketing opportunities and interindustry and interregional relationships; develop basic input-output data by region for analysis of alternative enterprises in farming and agribusiness; determine capital investment required to obtain specified levels of economic growth and employment. (GA-03-0440)	B. R. Miller L. H. Davis Department of Agricultural Economics University of Georgia Athens, GA 30601	6/69-6/74	M. L. Joncker. An Economic Model of the Heart of Georgia Area Planning and Development Commission. B. R. Miller and L. H. Langley, Jr. An Input-Output Model for Rural Areas Emphasizing Agribusiness: Georgia, American Journal of Agricultural Economics, Vol 56, No. 2. B. R. Miller and F. C. White. Tax Burden of Property, Income and Sales Taxes for Urban and Rural Homeowners in Georgia, Research Bulletin 157, 30 pp. B. R. Miller and F. C. White. Some Distributional Effects of Reducing the Property Tax in Rural and Urban Areas, Southern Journal of Agricultural Economics, Vol 6, No. 2. B. R. Miller and F. C. White. Effects of Property Tax Displacement on Homeowners in Georgia, Georgia Government Review, Vol 6, No. 3. B. R. Miller, Peng-Li Liv, and A. Nixon. An Aggregate Model of Supply and Demand for Labor in the Coosa Valley Area of Georgia.

3.09.14	SOCIOECONOMIC FACTORS INVOLVED IN THE PERFORMANCE OF CONTRACT BROILER PRODUCERS. Determine sociopsychological characteristics of contract broiler growers as well as physical resources and in-house management factors that contribute to or act as barriers to success. Develop criteria for use in identifying potentially successful broiler growers and help rural residents achieve success as contract broiler growers. (AL-00319)	R. N. Brewer M. White Department of Poultry Science Auburn University Auburn, AL 36830	4/71-6/74	R. N. Brewer and M. White. Factors Associated with Success of Contract Broiler Growers in Alabama, Highlights of Agricultural Research 21(1):14.

3.10	Major Area: ECONOMIC DEVELOPMENT	Minor Area: INCOME AND EMPLOYMENT EFFECTS OF TAXATION AND REGULATIONS	

3.10.1	ECONOMIC IMPACT OF PROPERTY TAXES ON AGRICULTURAL LAND USE IN GEORGIA. Determine and analyze the effects of (a) the relative burden and benefits of property taxes between urban and rural areas in Georgia, i.e., who is paying the tax and who is getting the benefits; (b) the impact of changes in property taxes on resource use in agriculture; (c) the impact of property taxes on the rate of planting of new forests and on the rate of cutting existing timber. Provide recommendations of alternative tax schemes based on the empirical findings in (a), (b), and (c) above. (GA-00434)	F. C. White Department of Agricultural Economics University of Georgia Athens, GA 30601	3/71-6/74	F. C. White and B. R. Miller. Some Distributional Effects in Rural and Urban Areas of Reducing the Property Tax, Southern Journal of Agricultural Economics, Vol 6, No. 2, Dec 1974. B. R. Miller and F. C. White. Tax Burden of State Income, Sales and Property Taxes of Homeowners in Georgia, University of Georgia Agricultural Exp Sta, Research Bulletin 157, Apr 1974. F. C. White and B. Abbitt. The Effect of Taxation and Land Use Controls on Agricultural Land Transfers in the Urban-Rural Fringe, Research Bulletin 159.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
				B. R. Miller and F. C. White. Effects of Property Tax Displacement on Homeowners in Georgia, Georgia Government Review, Vol 6, No. 3, pp 4-7.
3.10.2	EFFECTS OF SELECTED CHANGES IN REAL PROPERTY TAX SYSTEM ON LAND USE AND TAX REVENUES IN SOUTH CAROLINA. Estimate and compare the effects of real property taxation on agricultural land use in three counties selected from three type-of-farming areas, under three assessment systems--market value before reassessment, market value after reassessment, and preferential assessment of agricultural land on a use-value basis. Estimate the effects of the three assessment systems on the net farm income and the movement of land out of agriculture; and estimate the shift of real property tax from farmers to other classes of taxpayers under several preferential assessment schemes, some of which contain a roll-back feature. (SC-00986)	B. L. Dillman T. A. Burch Department of Agricultural Economics & Rural Sociology Clemson University Clemson, SC 29631	7/71-6/73	B. L. Dillman and W. I. Golden. Use Value Assessment of Farm Land in Charleston County, South Carolina, South Carolina Agricultural Exp Sta, Bulletin 568, Jan 1974.
3.10.3	ALTERNATIVE METHODS OF FUNDING PUBLIC SERVICES IN RURAL AREAS OF MISSISSIPPI. Enumerate and analyze present tax policies and procedures by level of government in Mississippi in terms of relation of tax payer to beneficiary, administrative costs, taxes collected, and use made of tax revenues. Estimate impact of selected taxes on economic activity in rural areas. Evaluate alternative	F. H. Tyner Department of Agricultural Economics Mississippi State University Mississippi State, MS 39762	4/73-12/75	J. W. Grace. Impact of Assessment Equalization on County Revenue and Homestead Exemption in Mississippi, unpublished master's thesis, Aug 1974. J. W. Grace and F. H. Tyner. Property Assessment Equalization in Mississippi: Effect on County Revenues,

	tax plans in terms of revenues, costs, and economic impact. (MS-4009)			Millage Rates, Homestead Exemption--and the Cost of Reevaluation, MAFES Bulletin No. 820, Nov 1974.

3.11	Major Area: ECONOMIC DEVELOPMENT		Minor Area: MISCELLANEOUS AND U..CLASSIFIED	
3.11.1	CENTRALIZATION, MAINTENANCE, AND ANALYSIS OF BASIC ECONOMIC DATA RELATING TO AGRICULTURE. Centralize and maintain in this department basic economic statistics pertaining to Mississippi agriculture so that a continuous flow of widely divergent requests for data which comes to this department can be answered promptly. (MS-4401)	J. G. Hamill Department of Agricultural Economics Mississippi State University Mississippi State, MS 39762	8/71-6/75	Outlook for Livestock and Meat, MAFES Highlights, Feb 1974.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
4.01	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: CONSERVATION		
	No research resumes available.			
4.02	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: RECREATION		
4.02.1	BIONOMICS, TAXONOMY AND CONTROL OF INSECT PESTS IN OUTDOOR RECREATIONAL AREAS. Study the taxonomy and distribution of pestiferous insects in outdoor recreational areas, determine the ecological factors concerned with the behavior and seasonal abundance, develop new means of control and develop new ways to alter human refuse to make it unattractive to these pests. (GA-01112)	J. O. Howell Department of Entomology Georgia Agricultural Experiment Station Experiment, GA 30212	7/70-6/74	J. O. Howell. A New Species of Wadotes (Araneae: Agelenidae) from Georgia, Annual Entomology Society of America, 67(5): 728-730. J. O. Howell, T. P. McGovern, and M. Beroza. Attractiveness of Synthetic Compounds to Some Eastern Vespula Species, Journal of Economic Entomology, 67(5):629-630.
4.02.2	FOREST-BASED EXPERIENCE AND OPPORTUNITIES FOR RURAL BLACK AMERICANS. To enhance the functional significance of the forest environment for black residents of the rural South. (SO-1902)	I. J. Nelson Institute Allevamento Vegetale Tuskegee Institute Tuskegee, AL 36088	12/70-6/74	I. J. Nelson. Minority Demand for Resident Youth Camping in the South, USDA Forestry Service General Technical Rpt NC-9, pp 98-100.
4.02.3	HUMAN FACTORS IN WETLAND RESOURCE DEVELOPMENT. Provide background information about residents of coastal areas	A. L. Bertrand K. W. Paterson Department of Rural	11/72-10/75	K. W. Paterson, J. L. Lindsey, and A. L. Bertrand. The Human Dimension of

	specifically and the state generally which will be useful in the development of wetland resources. Three specific goals are planned: determine and analyze the demographic characteristics of residents in the coastal parishes, determine knowledge and attitudes of local influentials and assess their potential role in wetland resources development, and ascertain level of knowledge and attitudes of Louisianians generally towards wetland resources development. (LA-BO-1620)	Sociology Louisiana State University Baton Rouge, LA 70803		Coastal Zone Development, LAES Bulletin No. 679, June 1974.

4.03	Major Area: ENVIRONMENTAL IMPROVEMENT		Minor Area:. FORESTS AND WILDLIFE	
4.03.1	ECOLOGY, DISTRIBUTION AND ECONOMIC USE IN NORTHERN FLORIDA AS FISH BAIT OR HEXAGENIA MUNDA EATON. Abstract not provided. (FL-04087)	W. L. Peters Department of Animal Science Florida A & M University Tallahassee, FL 32307	5/69-6/71	None reported.
4.03.2	MARKET RESPONSES OF PRIVATE FOREST LANDOWNERS. Determine the characteristics of small, private forest landowners associated with recommended forestry practices; the extent of absentee ownership, fragmentation and turnover of forest land in Georgia; and factors that influence decisions to hold or sell merchantable timber, and the volume of merchantable timber being held off the market. (GA-00433)	F. J. Holemo E. E. Brown Department of Agricultural Economics University of Georgia Athens, GA 30601	7/71-6/74	Forest Assistance Programs and the Private Forest Landowner in Northeast Georgia, master's thesis.

MATRIX NUMBER	PROJECT TITLE ABSTRACT PROJECT NUMBER (TERMINATED)	RESEARCHERS PERFORMING ORGANIZATION ADDRESS	PERFORMANCE PERIOD	PUBLICATIONS
4.04	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: LAND USE AND ZONING		
4.04.1	THE DISTRIBUTION OF OWNERSHIP OF RURAL LANDS IN FLORIDA. Determine the physical areas of all rural lands held under both public and large-scale private ownership in each county of Florida; ascertain the amount and characteristics of land holdings in each of the several classes of ownership now existing (Federal, state, county, municipal, corporate, and large-scale individual holdings--1,280 acres or over) and approximate the residual amount of rural lands not otherwise in use. (FL-AS-01503)	D. E. Alleger Department of Agricultural Economics University of Florida Gainesville, FL 32601	4/70-6/73	D. E. Alleger. "Florida Rural Land--How Its Ownership is Distributed, Florida Agricultural Exp Sta Bulletin 766, July 1974, 33 pp.
4.05	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: BEAUTIFICATION		
	No research resumes available.			
4.06	Major Area: ENVIRONMENTAL IMPROVEMENT	Minor Area: MISCELLANEOUS AND UNCLASSIFIED		
4.06.1	RELATIONSHIPS BETWEEN PESTICIDES AND GEORGIA FARM POND ECOSYSTEMS. Study is to provide answers to problems of the relationship of pesticides and farm pond ecosystems. (GE-00392)	R. G. Dudley Forest Resources University of Georgia Athens, GA 30601	2/66-6/71	None reported.

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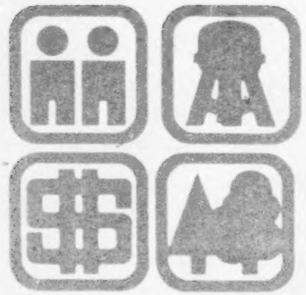

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